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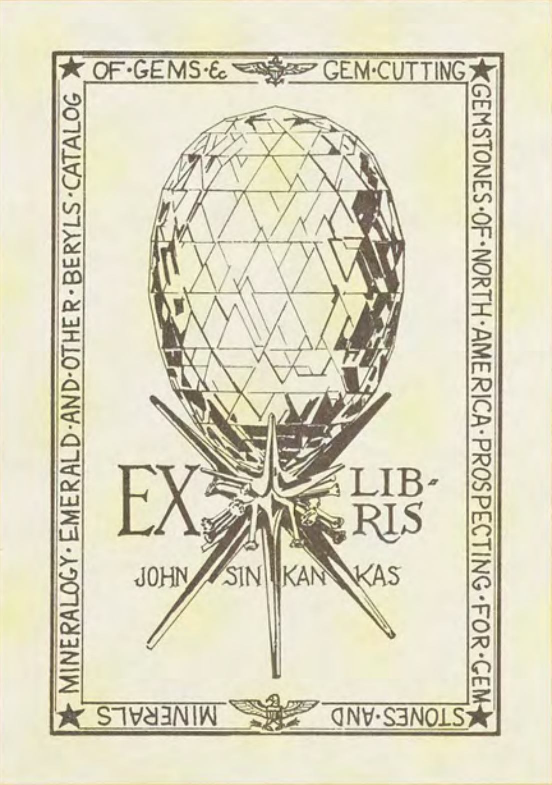

MINERALOGICAL SYNONYMES.

MINERALOGICAL NOMENCLATURE,

ALPHABETICALLY ARRANGED;

WITH

SYNOPTIC TABLES

OF THE

CHEMICAL ANALYSES

OF

MINERALS.

EDINBURGH:
PRINTED FOR ARCHIBALD CONSTABLE AND COMPANY, EDINBURGH;
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ERRATA.

Notwithstanding my anxiety to avoid inaccuracies, I have had the mortification to observe several typographical errors. As these, however, do not affect the sense, I shall not here enumerate them, but only request attention to the following alterations.

In the alphabet, after Argent noir, *read Méth.* 108 iii. *a.* B, 108 iii. *b*
—————— after Augustit *Reuss*, *read* 94 *a*
—————— after Bohnerz W, *read* 64 v. *l*
In article 38. ii. for vitreous ore, *read* vitreous copper ore
———— 50. *a* for Silex *read* Selce
———— 60. delete Schiller spar
———— 64. vi. delete spath fusible *Delisle*
In alphabet, after White vitriol—122 H, for Weisenerz *read* Wiesenerz
—————— after Zeolithe à 24 facettes B 5. *a*, for Zeigelerz *read* Ziegelerz

IN THE TABLES.

In No. V. analyses of sul. of soda after 49. let the dagger be reversed.
In No. XLVIII. in the last column, corresponding with the analyses of Asbestous actinolite, for An. ch. 212. *read* Annals, No. 21.

INTRODUCTION.

The idea of this little Work originated in the difficulty I experienced when the study of Mineralogy first engaged my attention. I was then so perplexed with the variety of Synonymous Terms which were indiscriminately made use of, that I was induced to frame a small manuscript vocabulary to assist my memory. This was afterwards committed to the press; and since that time so great an addition has been made, not only to the number of known minerals, but to the original stock of names, that a work of this kind requires to be renewed, were it only to keep pace with the alterations which time has introduced.

The very imperfect state in which this work formerly appeared, was another inducement to attempt some improvement; which, it occurred to me, might be accomplished by adopting a *specific system*, and arranging all the leading articles in alphabetical order in the list of names, while the chemical tables might be contrived to exhibit a *synoptic arrangement* of the system, in place of taking them at random, as they happened to occur alphabetically in English, French, or German.

The systematic arrangement I have adopted is nearly similar to that of HAUY, in which, for the sake of convenience, a few alterations have been made. The convenience here alluded to, is simply that of cabinet arrangement, which has induced almost every Mineralogist to take some liberty of the same kind, and is quite allowable when we consider how very little there is to control the distribution of minerals. For although every method be essentially founded on chemical composition, as deduced by analysis, without which no unknown mineral can be determined; yet analysis must still be conjoined with external character; for, of itself it is by no means so precise, as in all cases, to establish the nature of minerals. There are many instances in which we should be as much perplexed to determine a mineral, by knowing only its component parts, as we invariably are to class a newly discovered substance before it has been investigated by the chemist. For example, in the Annals of Philosophy for August last, the result of an analysis by JOHN, of a mineral from Kozemutz, is given, singularly named Razoumoffskin, containing 50. Silex, 16·88 Alumine, 2. Magnesia, 10·37 Potash, 20. Water, ·75 Nickel, with traces of Lime and Iron. Here, although we know the name, the locality, and the analysis, other data are still required before we can place it in the system. Again, the errors which have arisen from attempting to place minerals before they have been analysed, are numerous; Uranium, before it underwent chemical examination, was taken by SAGE for Green Heavy Spar, and by LESKE for Green Mica. The Saxon Carbonate of Strontites was long considered at Freyberg as Igloït and the Needle-ore of Bismuth to be an alloy of Chrome. Sphène, Anatase, and Dioptase, all metallic fossils, were arranged by HAUY among his earthy minerals, where they would probably have remained, had they not since been analysed.

It is, however, not very satisfactory to observe how widely the results of the most skilful analysts sometimes differ; particularly if any attention is to be paid to the theory of definite proportions, or that we are to allow with BERZELIUS, that the influence of the Electro-chemical theory, can be extended to the arrangement of minerals, and mineralogy considered as a subordinate branch of chemistry. Although we cannot refuse to believe with him, that as the same nature operated every where, so the operations must have been governed by the same laws; still these laws may have been susceptible of an infinity of modifications, which are far beyond the feeble power of man to unravel; and although BERZELIUS may be able to select, from the fruits of that industry and labour which have already afforded so many accurate results, a few examples where the theory of definite proportions may be found applicable, (and it were wonderful if he did not); still it is to be feared, that even with all the means of accuracy the chemist is now possessed of, the heterogeneous nature of almost all mineral bodies, and the consequent impossibility of obtaining them in a perfectly simple state, is of itself an effectual bar to that purity of system which he contemplates. It would indeed be delightful were it possible to clothe mineralogy in the true garb of science. As it is, however, we must not repine because we find the subjects of the inanimate kingdom incapable of the same perfection of arrangement as those of the animal and vegetable.

In imitation of HAUY the four great classes of ACIDIFEROUS, EARTHY, COMBUSTIBLE, and METALLIC have been selected. But in place of dividing the first into four orders, I have adopted only two of the most simple kind, namely, Soluble and Insoluble Salts. Of the Soluble Salts, the acid is considered as the type of the genus, with which the various alkaline or metallic combinations constitute the different species; thus the Carbonic, Boracic, Nitric, Muriatic, and Sulphuric Acids, which are found either native or compounds of Soluble Salts, form the genera, and their various combinations, so long as they are soluble in water, the species. By this means all the Salts are brought together, in place of being dispersed over the first and last classes of the system. This will no doubt appear to many persons an improper classification; in its defence I have only to plead convenience, which, in the cabinet of an individual, is an object of no small importance. Among the Insoluble Salts, I cannot prevail upon myself to place Topaz; its external characters certainly entitle it to remain with the harder substances, even though it should contain more than a fifth part of acid. With as much reason might we remove those which contain a notable proportion of alkali, some so high as 25 per cent. from among the earthy minerals;

but this would lead us to abandon the only principle of arrangement which, in the present state of the science, can be adopted with safety.

In the second class, I have not only rejected some of the alterations recently proposed by HAUY, but have also suggested others; conceiving it right to embrace as much as possible, and to place in the system every mineral we can, so long as we preserve distinct specific characters. Instead therefore of considering Calcedony, Opal, &c. as sub-species of Quartz, I see no inconvenience in regarding them as separate species. After them, I have introduced, also as species, Pitchstone, Pearlstone, Obsidian, Lava, Basalt, Basalt tuff, Greenstone and Clinkstone. These substances, in well characterised specimens, are all very distinct; yet gradations may be found whereby they may be traced so completely into each other, that it is nearly impossible to draw the line. Analysis too has been somewhat more successful in showing their mutual connections, than in most other parts of the system; and if we consider the close alliance which subsists between these and the Opals, through the medium of Pitchstone, we can scarcely refuse a place in the system, even to the aggregated rocks of Greenstone and Clinkstone. I have likewise adopted as species, Chlorite, Steatite, and Serpentine, in place of considering them as varieties of Talc; and to these are added Green earth, Bole, Fullers earth, Lithomarga, Potters clay, Whet slate, and Drawing slate, which have been uniformly left out in the arrangement of HAUY, although in that of WERNER, they have always been considered as species of different families.

In the distribution of the minerals belonging to the second class, some alterations are also made. After Felspar I have placed Sodalite, a situation pointed out by its external characters; and next to it Natrolite, from its similarity in composition, although perhaps it might have been better to adopt the opinion of other mineralogists, and to have considered it as a variety of Zeolite. The Apophyllite is removed from immediately after Felspar to a situation among the Zeolites, to which it is now known to belong. Hyperstène I have placed before Augite, and made some other changes of less importance.

With respect to the recent alterations proposed by HAUY, such as classing Tremolite with Amphibole, and Sahlite with Augite, I do not think it necessary to adopt them, particularly as his analogies appear in some respects to be overstrained.

From the appendix of HAUY, I have removed into the system as many minerals as there was any apology for so doing, and some of them perhaps on too slender authority; still, however, I think it right to curtail this department as much as possible, even with the chance of error, particularly as future corrections will be attended with very little inconvenience. In an Appendix are included a variety of different minerals, some of which are but little known, except as existing in the cabinets of those to whom they are indebted for their denominations.

The combustible bodies I have arranged somewhat differently from HAUY; after Sulphur is placed Amber, and then Mellite, to appearance at least, the purest in succession. Then the Bitumens, Coal, Anthracite, and Plumbago, the last as being the most imperfect of the combustible substances.

In the arrangement of the metallic class of minerals there has been little left to desire. I have taken them in the same progression as HAUY; beginning with the precious metals, and ending with those which have been latest discovered.

In the system I have thus presumed to publish, I hope no very material errors will be detected; and if there should, I beg it may be considered, that although our opportunities for study have in this quarter been of late years highly improved, under the auspices of our present Professor of Natural History, mineralogy has but very recently attracted any considerable attention in this quarter. Our means are therefore still very limited, when compared with other capitals; and it must also be remembered, that this is not the work of a professional man, but the result of considerable assiduity, bestowed when avocations of a very different nature would permit; and I trust not unprofitably so, to some of those into whose hands this volume may happen to fall. I therefore hope it will not be considered as soliciting more than I deserve, when I beg that inaccuracies may not be too scrupulously criticised.

With regard to the synonymes of Geological Nomenclature, I am still of opinion that it is impossible to reduce them to the same kind of arrangement with the Mineralogical; men of science being as yet undecided what ought to be considered primary or transition. Besides, as the name very often depends, not on the characters of the substance, but on the position in which it occurs, it is quite impossible to embody the ideas of all geological writers in a work of this sort.

I cannot, however, help expressing very great regret at the desire which prevails among the French authors, (I do not name a recent geological work of this country, which, from its eccentricity, I trust will be harmless,) to introduce new names upon every new occasion. HAUY, who has done so much in this way in mineralogy, seems to have resolved not to be less bold in geology, and, with the assistance of Mons. TONDI, has introduced a set of terms, among which scarcely one old acquaintance is to be recognised. Nor would this rage be so mischievous were it confined to one or two philosophers, but unfortunately, like other fashions of a more frivolous nature, it does not fail to obtain imitators. Thus we find, in a very interesting memoir of BRONGNIART, in the Journal des Mines for February last, such names as *Trappites*, *Eurites*, *Roche Clastique*, &c. of which, it may be presumed, many, like myself, never before heard. The observations, however, in that memoir, strongly corroborate my opinion upon the subject of geological nomenclature, namely, that the time is not yet arrived when any thing stable, which shall be generally acceptable to geologists, can possibly be proposed. There are many errors to correct, and many prejudices to overcome,—and, when we observe such a remark as the following, made by a man of BRONGNIART's character, we have reason to hope that the period is approaching when accurate investigation, and philosophic induction, will take place of theory and hypothesis :

"Ne serait-il pas fort remarquable qu'après avoir regardé pendant si long-tems, et sans le moindre doute, le Granite comme la plus ancienne, et la plus profonde des roches connues, il fût prouvé que c'est aux Schistes Argileux portant certaines empreintes végétales, au Calcaire noirâtre ou bleuâtre renfermant certaines petrifications, et à d'autres roches non cristallisées, à des roches même formées de debris, qu'il fallût attribuer la priorité de formation."

Brongniart sur le Geologie de la Cotentin.

I may be permitted to observe that, had BRONGNIART been acquainted with the writings of Dr HUTTON, he could not have supposed this was the first time the priority of Granite had been called in question.

THOMAS ALLAN.

CHARLOTTE SQUARE,
Edinburgh, 24th Dec. 1814.

SYNOPSIS

OF THE

SYSTEM ADOPTED IN THIS WORK.

1. Class. SALINE SUBSTANCES.
2. ——— EARTHY COMPOUNDS.
3. ——— INFLAMMABLE BODIES.
4. ——— METALLIC MINERALS.

1*st* Class.—SALINE SUBSTANCES.

1*st* Order, SOLUBLE SALTS.

1. Gen. CARBONIC.
   a. Native
   b. Carbonate of soda
2. Gen. BORACIC.
   a. Native
   b. Borate of soda
3. Gen. NITRIC.
   a. Nitrate of potash
   b. Nitrate of lime
4. Gen. MURIATIC.
   a. Native
   b. Muriate of soda
   c. Muriate of ammonia
5. Gen. SULPHURIC.
   a. Native
   b. Sulph. of ammonia
   c. ——— of soda
   d. ——— of alumine
   e. ——— of magnesia
   f. ——— of iron
   g. ——— of copper
   h. ——— of zinc
   i. ——— of cobalt

1*st* Class.

1*st* Class.—SALINE SUBSTANCES.

2*d* Order, INSOLUBLE SALTS.—1. Genus, LIME.

1. Sp. Carbonate.
  - *a.* Cristallised
  - *b.* Stalactitical
  - *c.* Fibrous
  - *d.* Foliated
  - *e.* Oviform
  - *f.* Earthy
  - *g.* Granular
  - *h.* Compact
  - *i.* Argillaceous
  - *k.* Bituminous
  - *l.* Magnesian
  - *m.* Quartzose
  - *n.* Ferro-manganesian
2. Sp. Arragonite.
  - *a.* Cristallised
  - *b.* Coralliform
3. Sp. Phosphate.
  - *a.* Cristallised
  - *b.* Green
  - *c.* Earthy
4. Sp. Fluate.
  - *a.* Cristallised
  - *b.* Compact
  - *c.* Earthy
5. Sp. Sulphate.
  - *a.* Cristallised
  - *b.* Fibrous
  - *c.* Compact
  - *d.* Earthy
  - *e.* Anhydrous
6. Sp. Nitrate.
7. Sp. Arseniate.
8. Sp. Borate.

2. Genus, BARYTES.

1. Sp. Sulphate.
2. Sp. Carbonate.

3. Genus, STRONTITES.

1. Sp. Sulphate.
2. Sp. Carbonate.

5. Genus, MAGNESIA.

1. Sp. Native.
2. Sp. Carbonate.
3. Sp. Borate.

5. Genus, ALUMINE.

1. Sp. Sulphate.
2. Sp. Alkaline Fluate.

2*d* Class.—EARTHY COMPOUNDS.

1. Sp. QUARTZ.
  - *a.* Cristallised
  - *b.* Purple
  - *c.* Blue
  - *d.* Green
  - *e.* Yellow
  - *f.* Rose
  - *g.* Resplendent
  - *h.* Hematitic
  - *i.* Flinty slate

k. Scaly
l. Granular
m. Fibrous
n. Amorphous
o. Pseudo
2. Sp. CALCEDONY.
a. Stalatitical
b. White
c. Coloured
d. Variegated
e. Green
f. Chrysoprase
g. Massive
3. Sp. OPAL.
a. Precious
b. Hydrophaneous
c. Common
d. Brown
e. Blue
f. Stalactitical
4. Sp. FLINT.
a. Compact
b. Decomposed
c. Brown.
5. Sp. JASPER.
a. Common
b. Opal jasper
c. Porcellaine jasper
6. Sp. PITCHSTONE.
7. Sp. PEARLSTONE.
8. Sp. OBSIDIAN.
9. Sp. LAVA.
a. Compact
b. Vesicular
c. Earthy
10. Sp. BASALT.
11. Sp. BASALT TUFF.
12. Sp. GREENSTONE.
13. Sp. CLINKSTONE.

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14. Sp. ZIRCON.
15. Sp. CORUNDUM.
a. Perfect
b. Imperfect
c. Granular
d. Amorphous

16. Sp. CHRYSOBERIL.
17. Sp. SPINEL.
18. Sp. TOPAZ.
1 *App.* Pycnite
2 *App.* Pyrophysallite
19. Sp. EMERALD.
a. Precious
b. Beril
20. Sp. EUCLASE.
21. Sp. GARNET.
a. Precious
b. Common
c. Black
d. Olive green
e. Granular
f. Manganesian
22. Sp. LEUCITE.
23. Sp. VESUVIAN.
24. Sp. MEIONITE.
25. Sp. FELSPAR.
a. Common
b. Resplendent
c. Opalescent
d. Green
e. Blue
f. Compact
g. Tough
h. Decomposed
26. Sp. SODALITE.
27. Sp. NATROLITE.
28. Sp. SPODUMENE.
29. Sp. AXINITE.
30. Sp. TOURMALINE.
a. Black
b. Green
c. Blue
d. Red
31. Sp. AMPHIBOLE.
a. Cristallised
b. Radiated
s. Acicular
32. Sp. HYPERSTÈNE.
33. Sp. AUGITE.
a. Cristallised
b. Granular
c. Compact
34. Sp. JENITE.
35. Sp. GADOLINITE.

36. Sp. SAHLITE.
37. Sp. STAUROLITE.
38. Sp. EPIDOTE.
   a. Cristallised
   b. Granular
39. Sp. DIALLAGE.
40. Sp. WERNERITE.
   a. Cristallised
   b. Prismatic
   c. Compact
41. Sp. LAZULITE.
42. Sp. MESOTYPE.
43. Sp. LAUMONITE.
44. Sp. APOPHYLLITE.
45. Sp. STILBITE.
46. Sp. CHABASIE.
47. Sp. ANALCIME.
48. Sp. PREHNITE.
49. Sp. WAVELLITE.
50. Sp. SOMMITE.
51. Sp. HARMOTOME.
52. Sp. PERIDOT.
   a. Cristallised
   b. Granular
53. Sp. LEPIDOLITE.
54. Sp. MICA.
55. Sp. PINITE.
56. Sp. DIPYRE.
57. Sp. CHIASTOLITE.
58. Sp. SAPPARE.
59. Sp. TREMOLITE.
60. Sp. ASBEST.
   a. Flexible
   b. Hard
   c. Suberiform
   d. Ligniform
61. Sp. TALC.
   a. Indurated
   b. Laminated
   c. Foliated
   d. Earthy
62. Sp. CHLORITE.
   a. Cristallised
   b Foliated
   c. Earthy
63. Sp. STEATITE.
64. Sp. SERPENTINE.
65. Sp. GREEN EARTH.
66. Sp. BOLE.
67. Sp. FULLERS EARTH.
68. Sp. LITHOMARGA.
69. Sp. POTTERS CLAY.
70. Sp. WHET SLATE.
71. Sp. DRAWING SLATE.

APPENDIX.

1. ADHESIVE SLATE.
2. ANDALOUSITE.
3. CEREOLITE.
4. CHUSITE.
5. DESMINES.
6. FIBROLITE.
7. FREISLEBEN.
8. IOLITHE.
9. KEFFEKILITHE.
10. LATIALITE.
11. LIMBELITE.
12. MELILITE.
13. PICOLITHE.
14. POLISHING SLATE.
15. SIDERO CLEPT.
16. SPATH DE GLACE.
17. SPINELLANE.
18. SPINTHERE.
19. TABULAR SPAR.
20. TRICKLASITE.
21. TURQUOISE.

3d Class.—INFLAMMABLE BODIES.

1. Sp. DIAMOND.
2. Sp. SULPHUR.
3. Sp. AMBER.
4. Sp. MELLITE.
5. Sp. BITUMEN.
    - *a.* Liquid
    - *b.* Viscid
    - *c.* Elastic
    - *d.* Solid
6. Sp. COAL.
    - *a.* Compact
    - *b.* Foliated
    - *c.* Brown coal
7. Sp. ANTHRACITE.
8. Sp. PLUMBAGO.

4th Class.—METALLIC MINERALS.

1. Gen. PLATINA
2. —— GOLD.
3. —— SILVER.
    1. Sp. Native
    2. — Antimonial
    3. — Sulph. Antim. Silver
    4. — Sulphurated
    5. — Carbonate
    6. — Muriate
4. Gen. MERCURY.
    1. Sp. Native
    2. — Argentiferous
    3. — Sulphuret
    4. — Muriate
5. Gen. LEAD.
    1. Sp. Native
    2. — Sulphuret
    3. — Oxide
    4. — Carbonate
    5. — Phosphate
    6. — Arseniate
    7. — Chromate
    8. — Molybdate
    9. — Sulphate
    10. — Muriate
6. Gen. NICKEL.
    1. Sp. Native
    2. — Arsenical
    3. — Oxide
    4. — Antimonial
7. Gen. COPPER.
    1. Sp. Native
    2. — Black Sulphuret
    3. — Yellow Sulphuret
    4. — Grey Sulphuret
    5. — Oxide
    6. — Blue Carbonate
    7. — Green Carbonate
    8. — Muriate
    9. — Phosphate
    10. — Arseniate
8. Gen. IRON.
    1. Sp. Native
    2. — Magnetic
    3. — Specular
    4. — Sulphuret
    5. — Oxide
    6. — Carbonate
    7. — Phosphate
    8. — Arseniate
    9. — Chromate
    10. — Muriate
9. Gen. TIN.
    1. Sp. Oxide
    2. — Sulphuret
10. Gen. ZINC.
    1. Sp. Oxide
    2. — Sulphuret
    3. — Carbonate

11. Gen. BISMUTH.
    1. Sp. Native
    2. — Sulphuret
    3. Sp. Oxide
    4. — Carbonate
12. Gen. COBALT.
    1. Sp. Arsenical
    2. — Oxide
    3. — Arseniate
    4. — Sulphuret
13. Gen. ARSENIC.
    1. Sp. Native
    2. — Oxide
    3. — Sulphuret
    4. — Martial Sulph.
14. Gen. MANGANESE.
    1. Sp. Oxide
    2. — Carbonate
    3. — Sulphuret
    4. — Phosphate
15. Gen. ANTIMONY.
    1. Sp. Native
    2. — Sulphuret
    3. — Oxide
    4. — Sulphurated Oxide
16. Gen. URANIUM.
17. Gen. MOLYBDENA.
18. Gen. TITANIUM.
    1. Sp. Oxide
    2. — Sil. Cal. Oxide
19. Gen. WOLFRAM.
    1. Sp. Ferruginous
    2. — Calcareous
20. Gen. TELLURIUM.
21. Gen. TANTALUM.
22. Gen. CERIUM.
    1. Sp. Siliceous Oxide
    2. — Brown Oxide
23. Gen. CHROMIUM.

METEORIC MINERALS.

1. meteorolites.
2. meteoric iron.

EXPLANATION

OF THE

LIST OF SYNONYMES.

WHEN this Little Work formerly appeared, the list of names was confined principally to those used by HAUY, BROCHANT, KIRWAN, and JAMESON, with one German name, and such as appeared useful in the works of LUCAS and BRONGNIART. To these, very considerable additions are now made, and the terms given, which are used by all the mineralogists of any note whose works I could procure, or whose nomenclature is to be found in the new edition of LUCAS. In general, all that were not mere translations have been selected, although even these have, in many instances, been found indispensable. Some local terms and old names, which are almost obsolete, are likewise inserted; by the former, this work may be rendered useful to individuals who know nothing of mineralogy; and by the latter, the progress and improvement of the science will be remarked.

All the leading articles begin with the name employed in the synoptic arrangement, which is followed by the word *Tables*, and a No. in Roman numerals, referring to the place where it may be found in the tables of chemical analyses. It is then followed by the synonymes of the name; and if the name be that of a mineral which presents different varieties, such as Amphibole, or Antimony, it is followed in regular succession by these varieties, with all their synonymes; each preceded by a small *a. b. c.*, &c. or i. ii. iii. &c.; the latter, as a kind of distinction, I have used only in the metallic class. When these have sub-varieties, as Columnar or Acicular Sulphate of Barytes, they are marked i. ii. iii., &c.: so that Säulenspath, when it occurs under the letter S. is referred by the No. 16. to Barytes,—by *a.* to the first species Sulphate,—and by i. to the sub-variety Columnar.

The names used by HAUY, BROCHANT, KIRWAN, WERNER, and JAMESON, are distinguished by their respective initials, subjoined to the word by a small capital letter. The names of other authors are either given at length, or so abbreviated as not to be mistaken.

It is with regret that this volume is sent to the press before I could reap the benefit of Professor JAMESON's new edition of his System of Mineralogy. Anxious, however, to embrace the opportunity of leisure, which might not again occur, I could not venture to delay my publication, even for the short interval which is expected to elapse, before that valuable work makes its appearance.

MINERALOGICAL SYNONYMES.

ACHAT W, 24 *d*
Achirite *Sewergin*, 38 vii. *b*
Acicular barytes—16 *a* ii.
Acid boracique libre H, 22 *a*
Acid carbonique H, 26 *a*
Acid muriatique *Lucas*, 85 *a*
Acid méphitique *Bewly*, 26 *a*
Acid of sea salt—85 *a*
Acid sulfurique libre H, 122 *a*
Acid vitriolique—122
Acido muriatico *Petrini*, 85 *a*
Acier natif *De la Métherie*, 64.1 *b*
Acier natif, pseudo volcanique H, 64.1 *b*
Actinolite J, Actinote H, 4 *b*
Adamantine spar—39 *b*

1. ADHESIVE SLATE. TAB. LXXXIX.
Adhesive slate J, Klebschiefer W, Polierschiefer B, Schiste à polir H, Argile feuilletée *Brong.* Schiste happant *Tondi.*

Adulaire B, 48 *b*
Adular W, Adularia J, 48 *b*
Ædelite B, 81 *b*
Aërolithe—82
Agalmatholithe *Klap.* 117 *b*
Agaric mineral K, 25 *f* i.
Agate J, 24 *d*
Agathe *Delisle* 24 *a*
Agathe verte-pomme *Deborn* 24 *f*
Agathine chatoyante *Méth.* 103 *g*
Aiguemarine 45 *b*
Akanticone *Dandrada*, 46 *a*
Alabaster *of the ancients* J, 25 *b*
Alabastrite *Méth.* 120 e
Alalite *Bonvoisin*, 104
Alkali mineral B, 26 *b*
Alkali mineral aére *Berg.* 26 *b*
Alkali min. muriatique *Berg.* 85 *b*
Alkali végétal nitré *Berg.* 89
Alkali vol. muriatique *Delisle* 85 *c*
Alkali volatil vitriolé *Berg.* 122 *b*
Alkaline fluate of alumine—2 *b*
Allanite *Thomson*, 28 *b*
Almandin *Karsten*, 55 *a*
Allochroïte B, H *appen.* 55 *d* ii.
Alquifoux *Lucas* 70 ii.
Alum—122 *d*
Alumbro nativo *Herrgen*, 122 *d*

2. ALUMINE. TABLES, XVII.
a. NATIVE. Pure clay J, Native argile K, Alumine pure *appen.* H, Aluminit, ou Kolyrit, *Karsten*, Reinethonerde W, Hydrargillite de Schemnitz, ou Hallite *Méth.* Argilla pura *Napione.*
b. ALKALINE FLUATE. Cryolite J, Kryolith W, Chriolite *Métherie*, Alumine fluatée alkaline, H.

Alumine mellatée *Méth.* 79
Alumine pure *appen.* H, 2 *a*
Alumine sulfatée *Brong.* 122 *d*
Alumine sulfatée alkaline H, 122 *d*
Alumine sulfatée fibreuse H, 122 *d* i.
Aluminit *Kars.* 2 *a*
Alun natif B, 122 *d*
Alun de plume *Bomare*, 122 *d* i.
Amalgam J, B, W, 80 ii.
Amalgamo nat. de Plata, *Herrg* 80 ii.
Amatita *Petr.* 64 v.
Amazon stone—48 *d*

3. AMBER. Tables, CXII.
   Amber J, K, Ambre jaune ou Karabé *Deborn*, Ambra gialla *Petr.* Bernstein W, Succin H, B.

Amethyste J, K, W, B, 103 *b*
Améthyste basaltine *Sage*, 94 *b*
Ametista *Napione*, 103 *b*
Amianth W, J, 13 *a*
Amianthinite K, 4 *c*
Amianthoïde H, 4 *c*
Amianthus K, 13 *a*
Amianto *Herrg.* 13 *a*
Ammites—25 *e* 1
Ammonia, *Muriate of*, 85 *c*
Ammonia, *Sulphate of*, 122 *b*
Ammoniaque muriaté H, 85 *c*
Ammoniaque sulfaté H, 122 *b*
Amorphous quartz K, 103 *n*
Ampelite graphique—44

4. AMPHIBOLE. Tables, XLVIII.
   a. Cristallised. Amphibole, *c'est à dire* Équiveque ou ambigu, H, Amphibole schorlique *Brong.* Basaltine K, Basaltische hornblende W, Basaltic hornblend J, Hornblende *Méth.* Orniblenda basaltica *Nap.* Lamellated var. Gabbro *Desmarest.*
   b. Radiated. Strahlstein W, Actinolite J, Actinote, *c'est à dire* Corps rayonné, *formerly* H, Asbestinite K, Rayonnante B, Schorl vert du Zillerthal ou Zillerthite *Méth.* Strahlite commune *Nap.*
   c. Acicular. Amianthinite K, Asbestartiger strahlstein W, Asbestous actinolite J, Amphibole actinote aciculaire *Brong.* Amianthoïde *appen.* H, Byssolite *Saussure*, Asbestoïde, supposed by Cordier to be capillary amphibole.

Amphibole schorlique *Brong.* 4 *a*
Am. actinote aciculaire *Brong.* 4 *c*
Amphigène H, 72

5. ANALCIME. Tables, LXIV.
   a. Analcime H, *c'est à dire* Corps sans vigueur à cause de la foible vertu électrique qui recoit ce minéral, au moyen de frottement. Cubic zeolite J, Kubezit W, Analcim *Kars.* Zeolithe de 24 facettes B, var. de Wurfel zeolith *Reuss.* Zeolithe dur *Méth.*
   b. Sarcolite *Thoms.* Analcime cubo-octaèdre *Lucas*, Hydrolite *Dedrée*, Sarcolite de Viscentin, *Faujas.*

Analcime cubo-octaèdre *Lucas*, 5 *b*
Anatase H, 128.1 *a*

6. ANDALUSITE. Tables, XC.
   Andalusit W, Feldspath apyre *appen.* H, Hardspar J, Stanzait *Flurl*, Mikaphyllite *Brunner*, Feldspath du Forez *Guyton.*

Andréasbergolithe *Méth.* 59
Anhydrit W, 120 *e*
Anthophyllite *Schum.* H, W, 60 *b*
Anhydrous sulphate of lime—120 *e*

7. ANTHRACITE. Tables, CXVI.
   a. Massive. Glance coal J, Native mineral carbon K, Anthracite H, Plombagine charbonneuse ou anthracolite *Deborn*, Kohlenblende *Estner*, Houillite *Daub.* Blende charbonneuse B, Carbon oxydulé ou Gèanthrace *Tondi*, Coalblend, Blind coal, &c.
   b. Foliated. Slaty glance coal J, Schiefrige glanz kohle W, Gemeiner anthracite *Kars.* Kilkenny coal—
   c. Compact. Conchoidal glance coal J, Muschliche glanz-kohle W, Schlakiger anthracit *Kars.* Houille éclatante B.

Anthracolite *Deborn*, 7 *a*
Anthrakonite *Beurard*, 25 *m* 3
Antimoine—8
Antimoine blanc B, 8 iii.
Anti. gris B, 8 ii.
Anti. hydro sulfuré H, 8 iv.
Anti. natif H, B, 8 i.
Anti. oxidé H, 8 iii.
Anti. oxidé sulfuré H, 8 iv.

Antimoine en plumes B, 8 ii. *a*
Anti. rouge B, 8 iv.
Anti. sulfuré H, 8 ii.
Anti. sulfuré pur *Brong.* 8 ii.
Anti. sulfuré capillaire H, 8 ii. *a*
Antimoine vierge *Bomare*, 8 i.
Antimonial ochre K, 8 iii. *a*
Antim. silver 108 ii.
Antim. sul. of lead *Thoms.* 70 ii. *e*
Antimoniated nat. silver K, 108 ii.

8. ANTIMONY. TABLES, CXXXII.
ANTIMOINE *Fr.* STIBIUM *Lat.* SPIESGLASS *Ger.*

i. NATIVE ANTIMONY. Native antimony J, K, Antimoine natif H, B, Gediegen spiesglass W, Gediegen Spiesglanz *Kars.* Antimoine vierge *Bomare.*

ii. SULPHURET of ANTIMONY. Grey antimony J, Sulphurated antimony K, Antimoine sulfuré H, Grau spiesglaserz W, Antimoine gris B, Antimoine sulfuré pur *Brong.* Galena antimoniale *Petr.* *a.* CAPILLARY. Feather Antimony J, Plumose antimony K, Antimoine sulfuré capillaire H, Antimoine en plumes B, Federerz W, Mine d'argent en plumes—

iii. OXIDE of ANTIMONY. White antimony J, Muriated antimony K, Antimoine oxydé H, Antimoine blanc B, Chaux d'antimoine natif *Mongez*, Weis spiesglaserz W. *a.* EARTHY. Antimony ochre J, Antimonial ochre K, Ochre d'antimoine B, Spiesglas okker W.

iv. SULPHURATED OXIDE of ANTIMONY. Red antimony J, Red antimonial ore K, Antimoine oxydé sulfuré, *formerly* Ant. hydrosulfuré H, Antimoine rouge B, Kermes mineral natif *Deborn*, Rothspiesglaserz W.

Antimony ochre J, 8 iii. *a*
Apatit W, Apatite commune B, 94 *a*
Apatite *Herrg.* J, 94 *a*
Aphrit *verharteter Kars.* 25 *d*
Aphrit *zerreiblicher Kars.* 25 *d* ii.
Aphrizit *Dandrada*, 130 *a*
Aplome H, 55 *d* 1

9. APOPHYLLITE. TABLES, LXI.

Fish eye-stone J, Apophyllite H, Ichtiophtalme B, Zeolithe d'Hellesta *Rinman*, Fischaugenstein W.

Appatite J, 94 *a*
Aquamarine—45 *b*
Arendalit *Reuss.* 46 *a*
Arena de Hierro magnetico *Herrg.* 64 ii.
Argent—108
Argent antimonial H, B, 108 ii.
Ar. antimonié sulfuré H, 108 iii.
Ar. ant. ferro-arsenifère 108 H, ii. *a*
Ar. ant. sulfuré noire H, 108 iii. *a*
Ar. arsenical B 108 ii. *a*
Ar. blanc *Brong.* 70 ii. *d*
Ar. blanc de Freyberg—70 ii. *d*
Ar. carbonaté H, 108 v.
Ar. corné B, 108 vi.
Ar. en épis, 38 ii. *b*
Ar. merde d'oie B, 37 iii. *a*
Ar. muriaté H, 108 vi.
Ar. muriaté terreux B, 108 vi. *a*
Ar. natif H, 108 i.
Ar. natif aurifère H, 108 i. *a*
Ar. noir H, B, 108 iii. *a*
Ar. rouge B, 108 iii.
Ar. sulfuré H, 108 iv.
Ar. vierge *Delisle*, 108 i.
Ar. vitreux B, 108 iv.
Ar. vitreux aigre B, 108 iii. *a*
Argentine K, 25 *d*
Argentiferous mercury—80 ii.
Argentum—108
Argile calcarifère H, 25 i.
Arg. cimolithe *Brong.* 53 *a*
Arg. commune *Deborn*, 101
Arg. feuilletée *Brong.* 1
Arg. glaise H, 101
Arg. legere *Brong.* 101 *d*
Arg. martiale *Deborn*, 21
Arg. ocreuse H, 21
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Argile à pipe B, 101 *a*
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Arg. schisteuse graphique H, 44
Arg. schisteuse novaculaire H, 138
Arg. smectique H, 53
Arg. verde di monte Baldo *Nap.* 57
Arg. vitriolatée *Berg.* 122 *d*
Argilla pura *Nap.* 2 *a*
Argillaceous carb. of lime—25 i.
Argillolite *Brong.* 101 *b*
Arktizit W, 137 *a*
Arménite *Méth.* 38 vi. *a*

10. ARRAGONITE. TABLES, VII.

a. CRISTALLISED. Arragone J, Arragone spar K, Arragonite B, H, Chaux carbonatée dure *Bournon*, Igloït W, Stängelkalk *Schumacher*, Excentricher kalkstein *Karsten*, Hard calcareous spar—

b. CORALLIFORME. Chaux carb. coralloïde H, Kalk sinter W, Eisen blüthe—Floss Ferri—

Arseniate of cobalt—37 iii.
Arseniate of copper, 38 x.
Arseniate of iron, 64 viii.
Arseniate of lead, 70 vi.

11. ARSENIATE OF LIME. TAB. XII.

Arsenic bloom J, Chaux arseniatée H, Arsenic blüthe W, Pharmacolite *Karsten.*

12. ARSENIC. TABLES, CXXX.
ARSENICUM *Lat.* ARSENIK *Ger.*

i. NATIVE. Native arsenic J, K, Arsenic natif H, Gediegen arsenik W.

ii. OXIDE. Native calx of arsenic K, Arsenic oxydé H, Arsenik blüthe *Kars.*

iii. SULPHURET. *Red variety*, Realgar; Sandarac *Deborn. Yellow do.* Orpiment; Arsenic sulfuré H, Rauschgelb W.

iv. PYRITES. Arsen. pyrites J, K, Fer arsenical H, Pyrite arsenicale B, Arsenic kies W, Mispickel *Delisle*, Arsenic pyriteux *Deborn*, Marcasitta *Petrini*, Pyrita venenosa *Herrg.*

Silverish arsenical pyrites J, Pyrite arsenicale argentifère H, Fer arsenical argentifère B, Pyrite d'argent *Bomare*, Weiserz W, Edler arsenik-kies *Kars.* Mina arsenical blanca *Herrg.*

Arsenic bloom J, 11
Arsenic oxydé H, 12 ii.
Arsenic pyriteux *Deborn*, 12 iv.
Arsenic sulfuré H, 12 iii.
Arsenical cobalt—37 i.
Arsenical nickel—87 ii.
Arsenical pyrites J, K, 12 iv.
Arsenical silver ore J, 108 ii. *a*
Arsenicated nat. silver K, 108 ii. *a*
Arsenik blüthe W, 11
Arsenik blüthe *Karsten*, 12 ii.
Arsenik gediegen, 12 i.
Arsenik kies W, 12 iv.
Arsenik silber W, 108 ii. *a*
Arménite *Méth.* 38 vi. *a*

13. ASBEST. TABLES, LXXVII.

a. FLEXIBLE. Amianth J, W, Amianthus K, Asbeste flexible H, Biegsamer asbest *Kars.* Lino fossile *Nap.* Lino de piedra amianto *Herrg.* Asbeste mûr, des anciens mineralogistes.

b. HARD. Common asbest J, Asbestus K, Asbeste dur H, Gemeiner asbest W, Asbeste commune *Nap.* Asbeste non mûr—

c. SUBERIFORME. Rock cork J, Suber montanum K, Asbeste tressé H, Berg kork W, Schwimmender Asbest *Kars.* Liége de montagne B, Mountain leather, Mountain paper, &c.

d. LIGNIFORME. Rock wood J, Ligniform asbestus K, Asbeste ligniforme H, Berg holz W, Holz asbest *Kars.* Ligno montano *Nap.*

Asbeste commune *Nap.* 13 *b*
Asbeste dur H, 13 *b*
Asbeste flexible H, 13 *a*
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Asbeste mûr—13 *a*
Asbeste non mûr—13 *b*
Asbeste tressé H, 13 *c*
Asbestinite K, 4 *b*
Asbestoïde—4 *c*
Asbestous actynolite J, 4 *c*
Asbestus K, 13 *b*
Asparagus stone J, 94 *b*
Asphaltum *Hatchet*, 20 *d*
Asteria *Kidd*, 39 *a*
Atacamite---38 viii.

14. AUGITE. Tables, L.

a. Cristallised. Augit J, B, W, Pyroxène *c'est à dire*, Hôte ou étranger dans le domaine du feu H, Octohedral basaltine K, Volcanic schorl—Volcanite, also Viriscite *Méth.*

b. Granular. Pyroxène granuliforme H, Körniger augit *Kars.* Pyroxène coccolithe *Brong.* Coccolit, *Andrada*, Kokkolith W.

c. Compact. Pyroxène en roche *Charpentier*, Lherzolite *Métherie*. The last suspects this may be a var. of Diallage.

Augustit *Reuss.* 94 *b*
Aurum—56
Aurum graphicum, 126 ii.
Aurum problematicum, 126 i.
Automolite *Ekeberg*, 112 *b*
Avanturine B, 103 *k*
Axe stone J, 48 *g* ii.

15. AXINITE. Tables, XLVI.

Axinite H, *c'est à dire*, corps aminci en forme de tranchant de Hache. Axinite W, Thumerstone J, K, Pierre de thum B, Schorl transparent lenticulaire *Delisle*, Schorl violet *Mongez*, Yanolite *Méth.* Glass schorl and Glass stein *Widenman*, Tumite *Napione*.

Azogue hepatico *Herrg.* 80 iii. *b*
Azogue nativo *Herrg.* 80 i.
Azufre nativo *Herrg.* 121
Azul de cobre *Herrg.* 38 vi.
Azur de cuivre B, 38 vi.
Azure stone J, 69
Azuro de montagna *Petr.* 38 vi. *a*

Baikalite H, 131 *a*
Balas ruby—112
Baldogée *Saussure*, 57
Balsamo de montaña *Herrg.* 20 *a*
Bardiglione *Bournon*, 120 *e*
Barite vitriolata *Nap.* 16 *a*
Baritite *Méth.* 16 *a*
Barolite K, 16 *b*
Baroselinite K, 16 *a*
Baryte carbonatée H, 16 *b*
Baryte aèrée *Deborn*, 16 *b*
Baryte hépatique *Deborn*, 16 *a* iv.
Baryte sulfatée H, 16 *a*
Baryte sulfatée bacillaire H, 16 *a* i.
Baryte sulfatée fœtide H, 16 *a* iv.
Baryte sulfatée radiée H, 16 *a* iii.

16. BARYTES. Tables, XIV.

a. Sulphate. Heavy spar J, Baroselenite K, Baryte sulfatée H, Spath pesant B, Gypse pesant *d'Arcet*, Spath fusible *Bucquet*, Baritite *Méth.* Barite vitriolata *Nap.* Schwerspath W, Ponderous spar—Cawk—

i. *Columnar*. Columnar heavy spar J, Columnar spar K, Säulenspath W.

ii. *Acicular*. Baryte sulfatée bacillaire H, Spath pesant en barres B, Stangenspath W, Prismatic heavy spar J.

iii. *Radiated*. Bolognese spar J, Baryte sulfatée radiée H, Spath de Boulogne B, Striated barytes K, Espato de Bolonia *Herrg.* Bologneser spath W, Lithéosphore *Méth.*

iv. *Hepatic*. Baryte sulfatée fœtide H, Hepatit *Klap.* Leberstein *Crons.* Liverstone K, Baryte hépatique *Deborn*, Pietra epatica *Petr.*

b. Carbonate. Witherite J, B, W,

Barolite K, Baryte carbonatée H, Baryte aèrée *Deborn*, Witerite *Nap.*

17. BASALT. Tables, XXVII.

Basalt J, W, Basaltes K, Basalte B, Lave lithoïde basaltique H, Trap, Rowley rag, Whinstone—

18. BASALT TUFF. Tab. XXVIII.

Basalt tuff J, W, Tuff basaltique B, Trap tuff K.

Basalt transparent *Delisle*, 130 *a*
Basaltic hornblend J, 4 *a*
Basaltische hornblende W, 4 *a*
Basaltine K, 4 *a*
Basaltine *octohedral* K, 14 *a*
Basanite K, 103 *i*
Baudisserite *Méth.* 75 *b*
Baume-momie—20 *b*
Beilstein *Emm.* 48 *g* ii.
Berg butter W, 122 *d* 2
Berg kristal W, 103 *a*
Berg holz W, 13 *d*
Berg kork W, 13 *c*
Berg mehl *Kars.* 101 *d*
Berg milch W, 25 *f* i.
Berg öl *Kars.* 20 *a*
Berg theer W, 20 *b*
Bergmanite—60 *b*
Beril aiguemarine *Brong.* 45 *b*
Beril émeraude *Brong.* 45 *a*
Beril feuilleté *Sage*, 105
Beril noble B, 45 *b*
Beril de oro *Herrg.* 33
Beril de saxe—94 *b*
Beril schorliforme B, 129 *ap.* i.
Beril schörlartiger W, 129 *ap.* i.
Berillo *Nap.* 45 *b*
Beryll J, 45 *b*
Bernstein W, 3
Beurre de montagne B, 122 *d* ii.
Bézoard minéral—25 *c* i.
Bhur stone of France—103 *n* i.
Biegsamer asbest *Kars.* 13 *a*
Bildstein W, 117 *a*
Bimsstein W, 68 *b*

19. BISMUTH. Tables, CXXVIII.

Wismuth *Ger.* Wismuthum *Lat.*

i. Native. Native bismuth J, K, Bismuth natif H, B, Gediegen wismuth W.
ii. Sulphuret. Bismuth glance J, Bismuth sulfuré H, Wismuth glanz W, Galene de bismuth B.
a. Needle ore J, Nadelerz W, Bismuth sul. plumbo cuprifère H.
iii. Oxide. Bismuth ochre J, K, Bismuth oxydé H, Ocre de bismuth B, Wismuth okker W.
iv. Carbonate.

Bismuth glance J, 19 ii.
Bismuth natif H, B, 19 i.
Bismuth ochre J, K, 19 iii.
Bismuth oxydé H, 19 iii.
Bismuth sulfuré H, 19 ii.
Bismuth sul. plombo cuprifère H, 19 ii. *a*
Bittersalz W, 122 *c*
Bitterspath B, 25 *l*
Bitterspath stänglicher *Klap.* 25 *l* 2
Bitume élastique H, 20 *c*
Bitume de Judée *Delisle*, 20 *d*
Bitume glutineux H, 20 *b*
Bitume liquide H, 20 *a*
Bitume solide H, 20 *d*

20. BITUMEN. Tables, CXIV.

a. Liquid. Fossil oil J, Petrol K, Bitume liquide H, Huille minerale commune B, Erdöel W, Bergöl *Kars.* Naphta—when transparent, Naphte *Deborn*, Balsamo de montaña *Herrg.*

b. Viscid. Bitume glutineux H, Mineral pitch J, Goudron mineral B, Berg theer W, Zähes erdpech *Kars.* Pissasphalte *Daub.* Malta *Petr.* Poix mineral *Delisle*, Mineral tar.—In Persia, Baume-momie *Brong.*

c. Elastic. Elastic mineral pitch J, Mineral cahoutchou K, Bitume élastique H, Poix mineral élastique B, Elastisches erdpech W.

Dapêche *Humboldt*, Var. of Elastic bitumen *Lucas.*

d. SOLID. Slaggy mineral pitch J, compact mineral pitch K, Asphaltum *Hatchet*, Bitume solide H, Poix mineral Scoriacée B, Schlackiges erdpech W, Bitume de Judée *Delisle*.

Bituminöse holzerde, 36 *c* iv.
Bituminöses holz W, 36 *c* i.
Bituminous carbonate of lime, 25 *k*
Bituminous marlite K, 25 *k*
Bituminous wood J, 36 *c* i.
Black carbonate of lead—70 iv. *a*
Black chalk K, 44
Black cobalt ochre J, 37 ii.
Black copper ore K, 38 ii. *a*
Black friable cinnabar J, 80 iii. *c*
Black garnet—55 *c*
Black lead ore K, J, 70 iv. *a*
Black sulphuret of copper—38 ii.
Black sylvan ore J, 126 ii.
Black wad—99
Black wad, des Anglais *Lucas*, 76 i *c*
Blätter zeolith W, 118
Blättererz *Kars.* 126 iii.
Blätterkohle W, 36 *b*
Blättricher beril von Seifen, 129
Blättricher chlorit W, 31
Blau spath—69 *a*
Blauer quarz *Germ.* 91 *c*
Blei—70
Blei vitriol W, 70 ix.
Bleierde W, 70 iii. & iv. *b*
Bleierz blau W, 70 v. *a*
Bleierz braun W, 70 v.
Bleierz gelb W, 70 viii.
Bleierz grün W, 70 v.
Bleierz roth W, 70 vii.
Bleierz schwarz W, 70 iv. *a*
Bleierz weis, W, 70 iv.
Bleiglanz W, 70 ii.
Bleiniere W, 70 vi.
Bleischweif W, 70 ii. *a*
Bleispath *Dunkler*, *Kars.* 70 iv. *a*
Bleivitriol W, 70 ix.
Blenda *Herrg.* 140 iii.
Blenda picea *Herrg.* 134 ii.
Blende B, K, W, J, 140 iii.
Blende charbonneuse B, 7 *a*
Bleu martial fossile cristallisé *Sage*, 64 vii.
Bleu de montagne B, 38 vi. *a*
Blind coal—7 *a*
Bloodstone—24 *e*
Blue calciforme copper ore K, 38 vi.
Blue felspar—48 *e*
Blue lead ore J, K, 70 v. *a*
Blue martial earth K, 64 vii. *a*
Blue opal—91 *c*
Blue quartz—103 *c*
Blue tourmaline—130 *c*
Blue vitriol—122 *g*
Bol W, 21

21. BOLE. TABLES, LXXXIII.

Bole J, K, B, Argile ochreuse H, Ocre *Brong.* Bol W, Argile martiale *Deborn.*

Bog ore J, 64 vii. *b*
Bohnerz W, 64 vi. *c*
Bois bitumineux B, 36 *c* i.
Bolide—82
Bolognese spar J, 16 *a* iii.
Bologneser spath W, 16 *a* iii.
Borace *Petr.* 22

22. BORACIC SALTS. TABLES, II.

a. NATIVE BORAX. Acid boracique libre H, Sassolin *Kars.* Sel sédatif *Homberg*, S.

b. BORATE OF SODA. Borax K, Soude boratée H, Borax natif B, Tinkal *Kars.* Borace *Petr.*—In Persia, Baurachs *Brong.*

Boracite J, B, 75 *c*
Boracited calx K, 75 *c*

23. BORATE OF LIME. TABLES, XIII.

a. Chaux boratée siliceuse H, Datholite *Esmark*, Chaux datholite *Brong.*

b. Botrioidal. Chaux boratée concretionnée H, Botriolite *Leonhard.*

Borate of magnesia—75 *c*
Borate of soda—22 *b*
Borax K, 22 *b*
Borax natif B, 22 *b*

Bostrichites *Walker* 102
Botriolite *Leonhard*, 23 *b*
Bournonite J, 70 ii. *c*
Bournonite *Lucas*, 49
Bovey coal—36 *c* i.
Braun menacanerz W, 128 ii.
Brauner eisenokker W, 64 v. *g*
Braunkohle W, 36 *c*
Braunspath W, 25 *n*
Braunstein W, 76
Braunstein kiesel *Reuss*. 55 *f*
Braunsteinerz *roth* W, 76 ii.
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Brezilienne *Saus*. 129
Brick red copper ore K, 38 v. *b*
Brick coloured mesotype—81 *b*
Brimstone—121
Bright white cobalt ore K, 37 i. *b*
Brittle silver glance K, 108 iii. *a*
Broad foliated gypsum—120 *a*
Bronzit *Kars*. 41 *b*
Brown coal J, 36 *c*
Brown cobalt ochre J, 37 ii.
Brown flint—50 *c*
Brown hematite J, K, 64 v. *f*
Brown gossan of Cornwall—139 i.
Brown iron ochre K, 64 v. *g*
Brown lead ore K, J, 70 v.
Brown opal—91 *d*
Brown ore *Thoms*. 128 ii.
Brown oxide of Cerium—28 *b*
Brown spar J, 25 *n*
Brunispato *Nap*. 25 *n*
Bucham—112
Bunt kupfererz W, 38 iii. *a*
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Byssolite *Saussure*, 4 *c*

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Cadmia *Pliny*, 140 i.
Cahoutchou *mineral* K, 20 *c*
Calamine J, B, K, 140 i.
Calc schaum J, 25 *d* ii.
Calc sinter J, 25 *b*
Calcareous spar—25 *a*
Calcspar J, 25 *a*
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Calcareo sil. titanitic ore, K, 128 ii.
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Calcedoine B, 24 *a*
Calcedoine alterée *Delisle*, 24 *b*
Calcedoine chrysoprase *Bour*. 24 *f*
Calcedoine silex *Bour*. 50 *a*
Calcedoine volcanique *Nonnull*, 91 *f* i.

24. CALCEDONY. TABLES, XIX.

a. STALACTITICAL. Common calcedony J, K, Quarz agathe calcedoine H, Gemeiner kalzedon W, Calcedoine B, Quartz en stalactite, et Agathe *Delisle*, Silex calcedoine et Silex agathe *Brong*. Gemeiner chalcedon *Kars*.

b. WHITE. Cachalong *Patrin*, Quarz agathe cacholong H, Silex cacholong *Brong*. Calcedoine alterée *Delisle*, Perlmutter opal *Karsten*, Cachelonio *Nap*.

c. COLOURED. Carnelian J, K, Quarz agathe cornaline H, Cornaline B, Silex cornaline *Brong*. Karneol W, Carniola *Herrg*. Sard—Sardoine—Sardonix—

d. VARIEGATED. Agate J, Quarz agathe onyx, Sardoine Panachée et Dendrètique H, Achat W, Ribband, Zoned, and Fortification agate—

e. GREEN. Heliotrop J, W, Quarz agathe ponctué H, Jaspe sanguin, Bloodstone, &c.—Stephanstein in Germany.

f. CHRYSOPRASE. Chrysoprase J, B, Chrysoprasium K, Quarz agathe prase H, Calcedoine chrysoprase *Bournon*, Agathe vert de pomme *Deborn*, Mere d'émeraude *Nonnull*, Prase ou Chrysoprase *Delisle*, Prasio *Petr*. Krysopras W.

g. MASSIVE. Hornstone K, Quarz agathe grossier H, Néopetre *Saussure*, Petrosilex *Deborn*, Keratite *Méth*. Splittriger hornstein

W, *Kars.* Pierre de corne infusible B, Silex corné *Brong.*

Calchante—122 *g*
Calciform silver ore K, 108 v.
Calp K, 25 *m* ii.
Cannel coal J, 36 *a* ii.
Cantalite *Kars.* 103 *l* i.
Capillary alum K, 122 *e* i.
Capillary pyrites—87 i.
Carbo—36
Carbon, with 1-4th iron, K, 99
Carbonate of barytes—16 *b*
Carbonate of copper, *blue*—38 vi.
Carbonate of copper, *green*—38 vii.
Carbonate of iron—64 vi.
Carbonate of lead—70 iv.

25. CARBONATE OF LIME. TAB. VI.

a. CRISTALLISED. Calc spar J, Common spar K, Chaux carbonatée cristallisée H, Spath calcaire B, Kalkspath W, Späthiger kalkstein *Kars.* Doppelspath *Ger.* Calcareous spar—Iceland spar—

b. STALACTITICAL. Calc sinter J, Chaux carbonnatée concretionnée H, Kalksinter W, Inolite *Gallizin*, Alabaster *of the ancients* J.

c. FIBROUS. Fibrous limestone J, Chaux carbonatée à fibres soyeuses H, Faseriger kalkstein W, Satin spar *Kidd.*

d. FOLIATED. *Solid.* Slate spar J, Chaux carbonatée nacrée H, Spath schisteux B, Argentine K, Chaux carb. dépressée *Bournon*, Schieferspath W, Verhärteter aphrit *Kars.* Schisto spato *Nap.*

i. Schalstone J, Schaalstein W, Pierre calc. testacée B, var. of Schieferspath according to *Brong.*

ii. *Pulverulent.* Calc schaum J, Ecume de terre B, Schaumerde W, Zerreiblicher aphrit *Kars.*

e. OVIFORM. Roestone J, Oviform limestone K, Chaux carb. globuliforme H, Oolite B, Rogenstein W, Tufo oolitico *Nap.*

i. Peastone J, Ch. carb. glob. testacée H, Pisolithe B, Stalactite globuleuse *Deborn*, Erbsenstein W, Bézoard minéral *Brong.* Dragée de Tivoli, Ammites, Orobites, Meconites—

f. EARTHY. *Solid.* Chalk J, Chaux carb. crayeuse H, Kreide W, Craie B, Creta coherens solida *Wall.*

i. *Pulverulent.* Rock milk J, Agaric mineral K, Chaux carb. spongieuse H, Lait de montagne B, Bergmilch W, Creta farinacea spongiosa *Wall.* Lac lunæ—

g. GRANULAR. Chaux carb. saccaroïde H, Pierre calcaire grenue B, Körniger kalkstein W, Primitive limestone, Statuary marble, Saline marble, &c.

Ganil K, a name given to the arenaceous limestone of Antrim, which fritters with the pressure of the fingers. It contains 47. of c. acid according to *Kirwan*, and possesses a sp. gr. of 2·74.

h. COMPACT. Compact limestone J, K, Chaux carb. compacte H, Dichter kalkstein W. Mehlbaz a name given to an impure limestone of Thuringia.

i. ARGILLACEOUS. Marle earth J, Earthy marle K, Argile calcarifére H, Marne argilleuse *Brong.* Mergel erde W, Marne terreuse B, Leuttrite *Lucas*, a phosphorescent marle from Leuttra in Saxony.

k. BITUMINOUS. Bituminous marlite K, Chaux carbonatée bituminifère H, Schiste marno bitumineux B, Bituminöser mergelschiefer W.

i. Swine stone K, Stinkstone J, Chaux carb. fétide H, Pierre puante B, Stinkstein W.

l. MAGNESIAN. *Cristallised.* Rhomb spar J, Cristallised muricalcite K, Bitterspath B, Picrite *Brong.*

Ch. carb. magnesifère cristallisée H, Rautenspath W, Kristallisirter dolomit *Kars.* Talkspath *Estner*, Miemite *Reuss.* Spath composé *Woulfe*, Chaux magnesiée *Deborn.*

i. *Prismatic.* Stänglicher bitterspath *Klap.*

ii. *Granular.* Dolomite J, W, Chaux carb. magnesifère granulaire H, Chaux carb. lente *Brong.* Common dolomite—

iii. *Compact.* Gurofian *Klap.* Gurhosian *Lucas*, Ch. carb. mag. compacte H--found between Gurhos and Aggsbach in Lower Austria.

m. QUARTZOSE. *Cristallised.* Chaux carb. quarzifère H, Grès cristallisé de Fontainebleau B, Cristallised sandstone. The workmen denominate the sandstone of Fontainebleau pif, paf, pouf, according to its hardness ; the first resists the stroke of the hammer ; the second is remarkable for its facility in breaking ; and the third is reduced to powder by a very gentle stroke.—Mittelstein *Hacquet*, a lamellated var. from Moustiers, *Lucas.*

i. Conite *Reuss.* Quarz agathe calcifère H, Silex silicicalce *Brong.*

ii. Calp *Kirwan*, Chaux carb. calp *Brong.*

iii. Madreporite H, B, Madreporstein *Kars.* Anthrakonit *Beurard.*

n. FERRO-MANGANESIAN. Brown spar J, sidero calcite K, Chaux carb. ferro manganesifère H, Spath brunnissant B, Brunispato *Nap.* Chaux manganesiée *Deborn*, Braunspath W, Pearl spar—

Carbonate of magnesia—75 *b*
Carbonate de nickel *Daub.* 87 iii
Carbonate of soda—26 *b*
Carbonate of silver—108 v
Carbonate of strontites *Hope*, 119 *a*
Carbonate of zinc—140 ii
Carbone pur *Tondi*, 42

26. CARBONIC SALTS. TABLES, I.

a. NATIVE. Acid carbonique H, Spiritus lethalis *Anc.* Spiritus sylvestris *Van Hell.* Acid méphitique *Bewly*, Kohlenstoffsäure *Germ.* Fixed air—

b. CARBONATE OF SODA. Natural soda J, Soude carbonatée H, Alkali mineral B, Alkali mineral aéré *Berg.* Natron *Kars.* Natron ou nitre des anciens *Lucas*, Soude blanche d'Egypte *Delisle.*

Carbon with 1-10th iron K, 99
Carbonated wood K, 36 *c* i
Carbone oxydulé *Tondi*, 7 *a*
Carbone oxydulé ferruginé *Tondi*, 99
Carbunculus—55 *a*
Carnelian K, J, 24 *c*
Carniola *Herrg.* 24 *c*
Carpenters chalk—44
Cats eye J, K, 103 *g*
Cawk—16 *a*
Ceilanite *Reuss.* 112 *a*
Celestine J, B, W, 119
Cellular quartz J, 103 *n* i
Céraunite—82, 48 *g* ii
Cererit *Kars.* 28 *a*
Cererium *Kars.* 28

27. CEREOLITE. TABLES, XCI.

Céréolite, de Drée, named from its similarity to wax, found in Corsica, Provence, Saxony, &c. and improperly considered as Steatite—*Musée mineralogique.*

28. CERIUM. TABLES, CXXXIX.

CERERIUM *Kars.* CERIUM H.

i. Cérium oxydé silicifère H, Cererit *Kars.* Cerit *His.* Cérium oxydé rouge *Méth.* Tungstene de Bastnæs *Crons.*

ii. Brown oxide of cerium—Cerin *His.* Allanite *Thoms.* Cérium allanite *Méth.*

Cerin *His.* 28 *b*
Cerit *His.* 28 *a*
Cérium allanite *Méth.* 28 *b*
Cérium oxydé rouge *Méth.* 28 *a*
Cérium oxydé silicifère H, 28 *a*
Céruse *native* K, 70 iii
Ceilanite *Reuss.* 112 *a*
Ceylanite J, 112 *a*

29. CHABASIE. Tables, lxiii.

Chabasie H, Tiré d'un mot grec, qui désigne une certaine espèce de pierre. Zeolithe cubique B, Cubic zeolite K, Schabasit W, Chabasin *Kars.* var. du Würfel zeolithe *Reuss.*

Chabasin *Kars.* 29
Chalk J, 25 *f*
Chalkolite W, 134 i
Chalcedon *gemeiner. Kars.* 24 *a*
Charbon de terre—36
Charbon schisteux B, 36 *b*
Charlo volcanico *Herrg.* 135
Chaux anhydro-sulfatée H, 120 *e*
Chaux d'antimoine native *Mongez*, 8 iii
Chaux arseniatée H, 11
Chaux boracique *Deborn*, 75 *c*
Chaux boratée concretionnée H, 23 *b*
Chaux boratée siliceuse H, 23 *a*
Chaux carbonatée bituminifère H, 25 *k*
Chaux carbonatée compacte H, 25 *h*
Chaux carbonatée calp *Brong.* 25 *m* ii
Chaux carb. concretionnée H, 25 *b*
Chaux carb. coralloïde H, 10 *b*
Chanx carb. crayeuse H, 25 *f*
Chaux carb. cristallisée H, 25 *a*
Chaux carb. depressée *Bourn.* 25 *d*
Chaux carb. dure *Bourn.* 10 *a*
Chaux carb. ferrifère H, 64 vi
Chaux carb. à fibres soyeuses H, 25 *c*
Chaux carb. ferro manganesifère H, 25 *n*
Chaux carb. fétide H, 25 *k* i
Chaux carb. globuliforme H, 25 *e*
Chaux carb. glob. testacée H, 25 *e* i
Chaux carb. lente *Brong.* 25 *l* ii
Chaux carbonatée magnesifère cristallisée H, 25 *l*
Chaux carb. mag. compacte H, 25 *l* iii
Chaux carb. mag. granulaire H, 25 *l* ii
Chaux carb. nacrée H, 25 *d*
Chaux carb. quartzifère H, 25 *m*
Chaux carb. saccaroïde H, 25 *g*
Chaux carb. spongieuse H, 25 *f*
Chaux de cobalt noire *Delisle*, 37 ii
Chaux datholite *Brong.* 23 *a*
Chaux fluatée amorphe H, 51 *c*
Chaux fluatée compacte H, 51 *b*
Chaux fluatée cristallisée H, 51 *a*
Chaux magnesiée *Deborn* 25 *l*
Chaux manganesiée *Deborn* 25 *n*
Chaux nitratée H, 88
Chaux phosphatée cristallisée H, 94 *a*
Chaux phos. chrysolite *Brong.* 94 *b*
Chaux phos. terreuse H, 94 *c*
Chaux sulfatée compacte H, 120 *c*
Chaux sulfatée cristallisée H, 120 *a*
Chaux sulfatée calcarifère H, 120 *c* i
Chaux sulfatée fibreuse H, 120 *b*
Chaux sulfatée niviforme H, 120 *d*
Chaux sulfatine *Brong.* 120 *c*
Chert *Kidd*, 50 *a* i

30. CHIASTOLITE. Tables, lxxiv.

Hollowspar J, Macle H, *c'est à dire* Rhombe évidé parallélement à ses bords. Pierre de croix *Delisle*, Crucite *Méth.* Holespath W, Chiastolith *Kars.*

31. CHLORITE. Tables, lxxix.

a. Cristallised. Chlorite J, Talc chlorite H, Chlorit W, Schisto chloritico *Nap.* Chlorite slate *Thoms.* Slaty chlorite J, Talc schisteux gris verdatre *Deborn*, Chlorit schiefer W.

b. Foliated. Foliated chlorite J, Blättricher chlorit W.

c. Earthy. Earthy chlorite J, Terre verte *Méth.* Erdiger chlorit *Kars.* Peach of Cornwall *Kidd.*

Chlorite blanche—124 c
Chlorite zographique H, 57
Chlorophane—51 *a*
Chriolite *Méth.* 2 *b*
Chromate of iron J, 64 ix
Chromate of lead—70 vii

32. CHROMIUM. Tables, cxl.

Chrome oxydé *Bournon*, from Ecouchets in Burgundy.

33. CHRYSOBERIL. Tab. xxxiii.

Chrysoberil J, K, B, Cymophane H, *c'est à dire* lumière flottante—Krysoberyll W, Chrysopale *Méth.* Crisoberillo *Nap.* Beril de oro *Herrg.* Chrysolite opalisante *Nonnul*, Oriental chrysolite of the lapidaries.

Chrysocolle *Brong.* 38 vii.
Chrysocolle bleue *Bucquet*, 38 vi.
Chrysopal *Méth.* 33
Chrysolite J, 93 *a*
Chrysolite opalisante *Non.* 33
Chrysoprase J, B. 24 *f*
Chrysoprasium K, 24 *f*

34. CHUSITE. Tables, xcii.

Chusite *Saussure*, a mineral found in the cavities of porphyry near Limbourg, and supposed by Brard to be decómposed Olivin.

Cimolithe B, 53 *a*
Cinnabar J, 80 iii.
Cinnabar *black friable* J, 80 iii. *c*
Cinnabre B, 80 iii.
Cinnabrio *Herrg.* 80 iii.
Cinnamite *Poggi*, 55 *a* ii.
Cinnamon stone J, 55 *a* ii.
Clay iron stone *common* J, 64 vi. *a*
Clay iron stone *lenticular* J, 64 vi. *d*

35. CLINKSTONE. Tables, xxx.

Clinkstone J, K. Pierre sonnante B, Klingstein W, Phonolite H, Echodolite *Klap.*

36. COAL. Tables, cxv.

Houille, Charbon de Terre *Fr.* Kohle *Ger.* Anthrace *Ital.* Julla *Span.* Anthrax or Carbo *Lat.*

a. Compact. Jet K, Jayet H, Lignite jayet *Brong.* Petrole compacte *Deborn*, Succin noire—Gagate *Petr.* Azabache *Span.*

i. Pitch coal J, Pech kohle W, Houille piciforme B, Houille sèche *Brong.* according to Prof. Jameson, Jet is a var. of Pitch coal.

ii. Cannel coal J, Kännel kohle W, Houille compacte *Brong.* Houille de Kilkenny (improperly) B, Parret coal of Scotland—

b. Foliated. Foliated coal and slate coal J, Blätter kohle and Schiefer kohle W, Houille, ou charbon schisteux B, Houille grasse *Brong.*

i. Dysodile *Cordier*, Houille papyracée H, Terre bitumineuse feuilletée *Bomare*, Tourbe papyracée *Tondi*, Merda de Diavola dés Siciliens.

c. Brown. Brown coal J, Houille brune B, Braunkohle W, Gemeine braun kohle *Reuss.*

i. *Fibrous.* Bituminous wood J. Carbonated wood K, Bituminöses holz W, Bois bitumineux B, Ligno bituminoso *Petr.* Suturbrand of Iceland——Bovey coal—

ii. *Columnar.* Columnar coal J, Stängen kohle W, Houille bacillaire H, Houille scapiforme B.

iii. *Friable.* Moor coal J, Houille limoneuse *Broch.* Moor kohle W, Lignite friable *Brong.*

iv. *Earthy.* Earth coal J, Lignite terreux *Brong.* Erd kohle W, Bituminöse holzerde—Terre de cologne—

Coalblend— 7 *a*

37. COBALT. TABLES, CXXIX.

KOBALT *Ger.* COBALTO *Ital.*

i. ARSENICAL. White cobalt ore J, Cobalt arsenical H, Cobalt blanc B, Weisser speiskobalt W, Cobalto blanco *Herrg.*

a. Grey cobalt ore J, Dull grey cobalt ore K, Cobalt gris noirâtre H, Cobalt arsenical ferrifère *Tondi*, Grauer speiskobalt W.

b. Cobalt glance J, Bright white cobalt ore K, Cobalt gris H, Cobalt éclatant B, Cobalt arsenical *Daub.* Kobalt glanz *Kars.*

ii. OXIDE. Black and brown cobalt ochre J, Cobalt oxydé noir H, Cobalt terreux B, Chaux de cobalt noire *Delisle*, Erd kobalt *Kars.*—Earthy var. Kobalt mulm W.

iii. ARSENIATE. Cobalt bloom J, Cobalt Arseniaté H, Rother erd kobalt W, Kobalt blüthe *Kars.* Fleurs de cobalt B, Oxyde de cobalt rouge *Deborn.*

a. Cobalt arseniaté argentifère H, Argent merde d'óie B, Gänseköthiges silber *Reuss.*

Cobalt arseniaté H, 37 iii.
Cobalt ar. argentifère H, 37 iii. *a.*
Cobalt arsenical H, 37 i.
Cobalt arsenical *Daub.* 37 i. *b*
Cobalt arsenical ferrifère *Tondi*, 37 i. *a*
Cobalt blanc B, 37 i.
Cobalt bloom J, 37 iii.
Cobalt éclatant B, 37 i. *b*
Cobalt glance J, 37 i. *b*
Cobalt gris H, 37 i. *b*
Cobalt gris noirâtre H, 37 i. *a*
Cobalt oxydé noir H, 37 ii.
Cobalt sulfaté *Brong.* 122 i.
Cobalt terreux B, 37 ii.
Cobaltic manganese—66 i. *d*
Cobalto blanco *Herrg.* 37 i.
Coccolit *Andrada*, 14 *b*
Cobre—38
Cobre nativo *Herrg.* 38 i.
Cobre vidrioso *Herrg.* 38 ii.
Colophonit *Reuss.* 55 *e*
Columbite J, 125
Columbium *Hatchet*, 125
Columb eisen *Reuss.* 125
Columnar coal J, 36 *c* ii.
Columnar clay iron stone J, 64 v. *d*
Columnar heavy spar—16 *a* i.
Columnar spar K, 16 *a* i.
Common argillaceous iron ore K, 64 vi. *a*
Common asbest J, 13 *b*
Common calcedony J, K, 24 *a*
Common clay iron stone J, 64 vi. *a*
Common dolomite—25 *l* ii.
Common feldspar K, 48 *a*
Common garnet J, 55 *b*
Common opal J, 91 *c*
Common salt—85 ii.
Common serpentine—106 *b.*
Common schorl J, 130 *a*
Common spar K, 25 *a*
Common tinstone J, 127 i.
Common tourmaline—130 *a*
Compact clay ironstone—64 v. *k*
Compact carbonate of lead—70 iv. *b*
Compact coal—36 *a*
Compact felspar J, 48 *f*
Compact fluor J, 51 *b*
Compact galena K, 70 ii. *a*
Compact gypsum J, 120 *b*
Compact lead glance J, 70 ii. *a*
Compact limestone J, K, 25 *h*
Compact mineral pitch J, 20 *d*
Conchoidal glance coal J, 7 *c*
Conite *Reuss.* 25 *m* i.
Continuous feldspar K, 48 *f*

38. COPPER. TABLES, CXXIV.

CUPRUM *Lat.* CUIVRE *Fr.* KUPFER *Ger.* RAME *Ital.* COBRE *Span.*

i. NATIVE. Native copper J, K, Cuivre natif H, B, Gediegen kupfer W, Rame nativo *Petr.* Cobre nativo *Herrg.* Venus of the alchemists *Brong.*

ii. BLACK SULPHURET. Copper glance J, Vitreous ore K, Cuivre sulfuré H, Kupferglass W, Kupferglanz *Kars.* Cobre vidrioso *Herrg.* Cuivre vitreux B.

a. Copper black J, Black copper ore K, Cuivre noir B, Kupfer schwarz W.

b. Cuivre gris spiciforme H, Argent en épis—Koernerkrenerz des mineurs Hessois *Lucas.*

iii. YELLOW SULPHURET. Copper pyrites J, Yellow copper ore K, Cuivre pyriteux H, Pyrite cuivreuse B, Mine de cuivre jaune *Deborn,* Kupferkies W, Pirite gialla *Petr.*

a. Variegated copper ore J, Purple copper ore K, Cuivre pyriteux hepatique H, Cuivre p. panaché *Brong.* Cuivre sul. violet *Deborn,* Buntkupfererz W.

iv. GREY SULPHURET. Fahlore J, Grey copper ore K, Cuivre gris H, B, Mine de cuivre antimonial *Deborn,* Mine d'argent grise *Mongez,* Fahlerz W.

a. Cuivre gris platinifère *Lucas,* a var of the grey sulphuret of copper from Guadalcanal in Estramadura, occasionally containing 1-10th of Platina.

v. OXIDE. Red copper ore J, Florid red copper ore K, Cuivre oxydulé H, Cuivre oxydé rouge B, Mine de cuivre vitreuse rouge *Delisle.*

a. Capillary. Cuivre oxydulé capillaire H, Haarformiges roth kupfererz W, Kupfer blüthe *Wid.*

b. Earthy. Tile ore J, Brick red copper ore K, cuivre oxydulé terreux H, Cuivre oxydulé ferrifère *Brong.* Ziegelerz W.

vi. BLUE CARBONATE. Copper azure J, Blue calciforme copper ore K, Cuivre carb. bleu H, Azure de cuivre B, Fleurs de cuivre bleues *Delisle,* Chrysocolle bleue *Bucquet,* Azul de cobre *Herrg.* Kupfer lazur W.

a. Earthy. Bleu de montagne B, Erdige kupferlazur W, Azuro di montagña *Petr.* Arménite *Méth.*

vii. GREEN CARBONATE. Malachite J, K, B, Cuivre carbonaté vert H, Fleurs de cuivre vertes *Delisle,* Malachit W.

a. Earthy. Mountain green J, Copper green K, Cuivre carb. vert pulverulent H, Vert de montagne *Delisle,* Chrysocolle *Brong.* Verde de cobre *Herrg.* Kupfergrün W.

b. Copper emerald J, Dioptase H, *c'est à dire* visible au travers. Cuivre dioptase B, Emeraude de Siberie *Ferba,* Emeraudine *Méth.* Kupfersmaragd W, Cristallisertes Kupfergrün *Estner,* Achirite *Sewergin.*

viii. MURIATE. Copper sand J, Cuivre muriaté H, Salzsaures kupfer W, Salzkupfer *Kars.* Atacamite—Greensand of Peru K.

ix. PHOSPHATE. Phosphate of copper J, Cuivre phosphaté H, Cuigre phosphoré *Méth.* Phosphor kupfererz W.

x. ARSENIATE. Cuivre arseniaté H, Cuivre arsenical B.

1. Sp. Lenticular *Bournon,* Linsenerz W.

2. Lamellar *Bournon,* Kupferglimmer W, Copper mica J, Cuivre arseniaté lamelliforme B.

3. Acicular *Bournon,* Olivenerz W, Olive copper ore K, Olivin ore J.

a. Earthy. Cuivre arseniaté terreux jaune verdâtre H, Pharmacochalzit *Leon.*

Copparosa turchina *Petr.* 122 *g*
Copper azure J, 38 vi.
Copper black J, 38 ii. *a*

Copper emerald J, 38 vii. *b*
Copper glance J, 38 ii.
Copper green K, 38 vii. *a*
Copper mica J, 38 x.
Copper nickel J, 87 ii.
Copper pyrites J, 38 iii.
Copper sand J, 38 viii.
Cordierite *Lucas*, 62
Corindon adamantin *Brong.* 39 *b*
Corindon granulaire H, 39 *c*
Corindon harmophane H, 39 *b*
Corindon har. opaque H, 39 *b* i.
Corindon hyalin H, 39 *a*
Corindon télésie *Brong.* 39 *a*
Corindon zincifère *Hisinger*, 112 *b*
Cornaline B, 24 *c*
Corneous mercurial ore K, 80 iv.
Corneous silver ore K, 108 vi.
Corund J, 39 *b*

39. CORUNDUM. TABLES, XXXII.

a. PERFECT. Sapphire J, Oriental ruby, sapphire, and topaz K, Corindon hyalin formerly Télésie, *c'est à dire* corps parfait H, Corindon télésie *Brong.* Asteria of the ancients *Kidd*, Saphir W, Malabar name Sappira. Colorless var. Lux sapphir—

b. IMPERFECT. Corund J, Adamantine spar K, Corindon harmophane, formerly Corindon H, Spath adamantin B, Spato adamantino *Nap.* Gemeiner korund W, Corindon adamantin *Brong.*
i. *Brown* var. from China, Diamond spar J, Corindon harmophane opaque H, Demant spath W.

c. GRANULAR. Emery J, K, Corindon granulaire formerly Fer oxydé quartzifère H, Smeriglio *Petr.* Schmirgel W, Emeril B.

Cornish tin ore J, 127 i. *a*
Cos *Méth.* 138
Coticula *Wall.* 138
Couperose vert *Delisle*, 122 *f*
Craie B, 25 *f*
Craie de Briançon—124 *a*
Craie d'Espagne *Delisle*, 117
Craitonite *Bournon*, 141
Crayon rouge B, 64 v. *b*
Creta cimolia—53
Creta coherens solida *Wall.* 25 *j*
Creta farinacea spongiosa *Wall.* 25 *f* i.
Crisoberillo *Nap.* 33
Crisolito *Nap.* 94 *b*
Crisolito nobile *Nap.* 93 *a*
Crisolito commune *Nap.* 93 *b*
Crisolito de vulcani *Petr.* 135
Crispite *Méth.* 128 i. *b*
Cristal de Roche B, 103 *a*
Crocalite *Est.* 81 *b*
Croisette *Daub.* 116
Cross stone J, 59
Crusite *Méth.* 30
Cryolite J, 2 *b*
Crysolithe du cap *Sage*, 102
Cube ore J, 64 viii. *a*
Cube spar J, 120 *e*
Cubic zeolite J, 5 *a*—K, 29
Cuivre—38
Cuivre arseniaté H, 38 x.
Cuivre ars. ferrifère B, 64 viii.
Cuivre ars. lamelliforme B, 38 x.
Cuivre ars. terreux jaune verdâtre H, 38 x. *a*
Cuivre arsenical B, 38 x.
Cuivre carbonaté bleu H, 38 vi.
Cuivre carb. vert H, 38 vii.
Cuivre carb. vert pulverulent H, 38 vii. *a*
Cuivre corné *Deborn*, 134 i.
Cuivre dioptase *Brong.* 38 vii. *b*
Cuivre gris H, B, 38 iv.
Cuivre gris platinifère *Lucas*, 38 iv. *a*
Cuivre gris spiciforme H, 38 ii. *b*
Cuivre muriaté B, 38 viii.
Cuivre natif H, B, 38 i.
Cuivre noir B, 38 ii. *a*
Cuivre oxydé rouge B, 38 v.
Cuivre oxydulé H, 38 v.
Cuivre ox. capillaire H, 38 v. *a*
Cuivre ox. terreux H, 38 v. *b*
Cuivre ox. ferrifère *Brong.* 38 v. *b*
Cuivre phosphaté H, 38 ix.
Cuivre phosphoré *Méth.* 38 ix.

Cuivre pyriteux H, 38 iii.
Cuivre pyriteux hépatique H, 38 iii. *a*
Cuivre pyr. panaché *Brong.* 38 iii. *a*
Cuivre sulfaté H, 122 *g*
Cuivre sulfuré H, 38 ii.
Cuivre sul. violet *Deborn*, 38 iii. *a*
Cuivre vitreux B, 38 ii.
Cupreous antimonial sulphuret of lead—70 ii. *e*
Cupreous arseniate of iron *Bournon*, 64 viii.
Cuprum—38
Cyanite J, B, 105
Cymophane H, 33

DAOURITE *Méth.* 130 *d*
Dapêche *Lucas*, 20 *c*
Datholite *Esmark*, 23 *a*
Decomposed flint—50 *b*
Delphinite *Saus.* 46 *a*
Demant W, 42
Demant spath—39 *b* i.
Déodalite *Rose*, 97

40. DESMINE. TABLES, XCIII.

A name given by *Nose* to a substance cristallised in small silky tufts, accompanying Spinellane in the lavas of the extinct volcanoes of the Rhine.

41. DIALLAGE. TABLES, LVI.

a. Green var. Diallage verte H, Granular actinolite J, Feldspath vert *Delisle*, Emeraudite *Daub.* Lotalalite *Sewergin*, Körniger strahlstein W, Smaragdit *Kars.*

b. Metallic var. Schiller stone J, Diallage metalloïde H, Spath chatoyant B, Miroitante *Méth.* Diallage chatoyante *Brong.* Schillerstein W, Bronzit *Kars.* Labradorische hornblende *Emm.*

Haüy has given the name of Euphotide to the shining green Lamellar Diallage contained in the compact felspar of Corsica, known as the Verde di Corsica Duro in Italy—

Diallage chatoyante *Brong.* 41 *b*
Diallage metalloïde H, 41 *b*
Diallage verte H, 41 *a*

42. DIAMOND. TABLES, CX.

Diamond J, K, Diamant H, B, Demant W, Carbon pùr *Tondi*, Malabar name Virum—

Diamond spar J, 39 *b* i.
Dichroïte *Cord.* 63—*Bourn.* 103 *c*
Diaspore H, 136
Diaspero *Petr.* 61
Dichter fluss W, 51 *b*
Dick faseriger amethyst W, 103 *m*
Diopside *Brong.* 104
Dioptase H, 38 vii. *b*
Diorite H, 58

43. DIPYRE. TABLES, LXXIII.

Dipyre *c'est à dire* Doublement susceptible de l'action du feu H, Schmelzstein W, J, Dipyr *Kars.* Leucolith de Mauléon *Méth.*

Disthène H, 105
Dolomite W 25 *l* ii.
Dolomite *kristallisirter Kars.* 25 *l*
Doppelspath—25 *a*
Dragée de Tivoli—25 *c* i.

44. DRAWING SLATE. LXXXVIII.

Drawing slate J, Black chalk K, Argile schisteuse graphique H, Schiste à dessiner B, Ampelite graphique *Brong.* Zeichenschiefer W, Nigrica *Wall.* Carpenters chalk—Melantherite *Méth.*

Dull grey cobalt ore K, 37 i. *a*
Dysodile *Cordier*, 36 *b* i.

EARTH COAL J, 36 *c* iv.
Earthy carb. of lime—25 *f*
Earthy green carb. of copper—38 vii
Earthy blue carb. of copper—38 vi
Earthy chlorite J, 31 *c*
Earthy fluor J, 51 *c*

Earthy gyps—120 *d*
Earthy marle K, 25 i.
Earthy phosphate of lime—94 *c*
Earthy talc J, 124 *e*
Echodolite *Klap.* 35
Ecume de mer—75 *b* i.
Ecume de terre—25 *d* ii.
Edelite B, 81 *b*
Edler arsenik kies *Kars.* 12 iv.
Edler beril W, 45 *b*
Edler granat W, 55 *a*
Edler opal W, 91 *a*
Edler serpentin W, 106
Egyptian jasper J, 50 *c*
Egyptian pebble K, 50 *c*
Eisen—64
Eisen gediegen W, 64 i.
Eisenblende—134 ii.
Eisenblüthe—10 *b*
Eisenchrome *Kars.* 64 ix.
Eisenerde *blaue* W, 64 vii. *a*
Eisenglanz W, 64 iii.
Eisenglimmer W, 64 iii. *a*
Eisenkiesel W, 103 *h*
Eisenkolumb *Kars.* 125
Eisenokker W, 64 v. *c*
Eisenpecherz 64 vii. *c*
Eisenrham roxo *Herrg.* 64 v. *c*
Eisenrham rouge B, 64 v. *c*
Eisensand W, 64 ii. *a*
Eisenschwärze *Reuss.* 64 v. *h*
Eisenstein *magnet* W, 64 ii.
Eisenstein *rasen* W, 64 vii. *b*
Eisenstein *spath* W, 64 vi.
Eisenvitriol *Kars.* 122 *f*
Eispath W, 111
Elaeolith *Kars.* 137 *d*
Elastic mineral pitch J, 20 *c*
Elastic quartz H, 103 *l* ii.
Elastic sandstone—103 *l* ii.
Electric schorl—130 *b*
Electrum *Klap.* 56

45. EMERALD. Tables, xxxvi.

a. Emerald J, K, Emeraude *c'est à dire* corps Brillant H, Schmaragd W, Glatter smaragd *Kars.* Smaragdus *Wall.* Smeraldo *Nap.* Beril Emeraude *Brong.*

b. *Beril.* Precious beryll J, Emeraude limpide, verte bleuâtre, jaune verdâtre H, Edler beril W, Gestriefter smaragd *Kars.* Beril aigmarine *Brong.* Beril noble B, Berillo *Nap.* Aquamarine—

Emerald of Brasil—130 *b*
Emeraude H, 45 *a*
Emeraude du cap *Rochon*, 102
Emeraude de Siberie *Ferber*, 38 vii. *b*
Emeraude limpide, vert bleuâtre, &c. H, 45 *b*
Emeraudine *Méth.* 38 vii. *b*
Emeraudite *Daub.* 41 *a*
Emeril B, 39 *c*
Emery J, K, 39 *c*
Endélion *Bourn.* 70 ii. *e*

46. EPIDOTE. Tables, lv.

a. Cristallised. Pistazit J, W, Glassy actinolite K, Rayonnante vitreuse B, Épidote H, *c'est à dire* qui a reçu un accroisement. Delphinite *Saus.* Stralite vitriosa *Nap.* Thallit *Kars.* Akanticone *Andrada*, Arendalit *Reuss.* Grey shining var. Zoïsit W.

b. Granular. Epidote arenacé H, Skorza *Lúcas.*

Epsom salt K, 122 *e*
Epsonite *Méth.* 122 *e*
Erbsenstein W, 25 *c* i.
Ercinite *Nap.* 59
Erdiger chlorite *Kars.* 31 *c*
Erdiger fluss *Kars.* 51 *c*
Erdiger phosphorit *Kars.* 94 *c*
Erd kobolt *Kars.* 37 ii.
Erd kobolt *rother* W, 37 iii
Erd kohle W, 36 *c* 4
Erdöel W, 20 *a*
Erdpech *elastisches* W, 20 *c*
Erdpech *schlackiges* W, 20 *d*
Erdpech *zähes Kars.* 20 *b*
Espato de Bolonia *Herrg.* 16 *a* iii.
Espuma de manganesa *Herrg.* 76 i. *a*

Estaño—127
Estaño vidrioso *Herrg.* 127 i.
Esteatita *Herrg.* 117
Etain—127
Etain limoneux *Deborn*, 127 i. *a*
Etain oxydé H, 127 i.
Etain oxydé concretionné H, 127 i. *a*
Etain ox. au maximum *Méth.* 127 i.
Etain pyriteux B, 127 ii.
Etain sulfuré H, 127 ii.
Etain stalactite *Delisle*, 127 i. *a*
Etain vitreux cristallisé *Deb.* 127 i.
Ethiops mineral natif B, 80 iii. *c*
Ethiops martial natif *Deborn*, 64 v. *i*
Euphotide H, 41 *b*

47. EUCLASE. Tables, xxxvii.

Euclase *c'est à dire* Facile à brisér H, Euklas W. Of this mineral, which is about the rarest we are acquainted with, and is found only in Peru and Brasil, there is a splendid collection in the cabinet of Mr Rundell.

Fahlerz W, 38 iv.
Fahlore J, 38 iv.
Fahlunite *Kars.* 112 *b*
False amethyste—51 *a*
False diamond—141
False saphire—103 *c*
Farinaceous gypsum K, 120 *d*
Farinaceous zeolite—81 *a*
Farine fossile *Mongez*, 120 *d*
Farine fossile de Fabroni *Méth.* 101 *d*
Farine volcanique *Méth.* 101 *d*
Faser quarz *Kars.* 103 *m*
Faser zeolith W, *Kars.* 81
Fassaït *Lenz*, 118
Faux lapis *Stutz*, 69 *a*
Feather antimony J, 8 ii. *a*
Federerz W, 8 ii. *a*
Federsalz *Kars.* 122 *d* i.
Feldispato commune *Nap.* 48 *a*
Feldspath H, 48 *a*
Feldspath apyre *appen.* H, 6
Feldspath bleu *appen.* H, 48 *c*
Feldspath bleu céleste *Deborn*, 48 *c*
Feldspath comp. céroide H, 48 *f*
Feldspath cubique W, 48 *a* i.
Feldspath décomposé H, 48 *h*
Feldspath du Forez *Guyton*, 6
Feldspath *gemeiner* W, 48 *a*
Feldspath laminaire—48 *a* ii.
Feldspath *muschliger Link.* 129
Feldspath nacré H, 48 *b*
Feldspath opalin H, 48 *c*
Feldspath *opalisirender Kars.* 48 *b*
Feldspath tenace H, 48 *g*
Feldspath vert H, 48 *d*
Feldspath vert *Delisle*, 41 *a*
Felsite K, 48 *e*
Feldstein *blättriger Estner*, 48 *a*
Feldstein *dichter Estner*, 48 *f*

48. FELSPAR. Tables, xlii.

a. Common. Fresh feldspar J, Common feldspar K, Feldspath ou Orthose, (the latter) tirer d'un mot Grec qui signifie droit H, Spath fusible *d'Arcet*, Spath étincillant *Daub.* Feldspath commun B, Gemeiner feldspath W, Feldispato commune *Nap.* Blättriger feldstein *Estner*, Petalite *Andrada.*

i. Wurflicher feldspath W, Feldspath cubique B, Petrilite K, var. of common felspar.

ii. Feldspath laminaire—Petunzé of the Chinese, the Sanidin of *Nose* is a var. of felspar disseminated in the argillaceous porphyry of Drechenfels.

The Indianite of *Bournon*, although containing an unusual proportion of alumine according to the analyses of Chenevix, is probably a var. of felspar.

b. Resplendent. Adularia J, Moonstone K, Feldspath nacré H, Adulaire B, Felspath adulaire *Brong.* Adular W, Opalisirender feldspath *Kars.*

c. Opalescent. Labradore stone J,

K, Feldspath opalin H, Pierre de Labrador B, Labradorite *Méth.*

d. GREEN. Feldspath vert H, Patrin states that this stone has been improperly called Pierre d'Amazone by *Deborn*, &c.—vulg. Amazon stone.

e. BLUE. Azurite J, Feldspath bleu H, *appen.* var. of Dichter Feldspath W, Splittriger lazulite *Kars.* Feldspath bleu céleste *Deborn*, var. du Tyrolite *Méth.* Felsite K.

Siderite *Moll*, Mollite—Quartz résinite bleu grisâtre *Lucas.* In conformity with Klaproth, this substance is placed under Felspar, although there is a great disparity of opinion respecting it; Lucas describes it as a variety of opal; in the Journal des Mines, it is mentioned as a variety of Quartz; and Tromsdorff who analysed it, observed that its composition approaches nearer to that of Spinel than any other mineral. By reference to its analysis, it certainly does not appear properly placed under Felspar.

f. COMPACT. Compact feldspar J, Continuous feldspar K, Dichter feldstein *Estner*, Feldspath compacte céroïde H, Petrosilex *Mongez*, Paläiopetre *Saus.* Petroselce commune *Petr.* Splittriger hornstein—Helleflinta of the Swedes, Gabbronite *Schumacher.*

g. TOUGH. Feldspath tenace H, Jade *Saus.* Hornstone J, Pierre à corne B, Silex corné *Brong.* Saussurit *Kars.* Lehmanite *Méth.* Magnelithe *Hopfner.*

i. Jade néphritique H, *appen.* Jade K, Nephrit *Kars.* Giada *Petr.* Pierre nephritique—Pierre des reins—Pierre des Amazons —Takourave—

ii. Jade ascien H, *appen.*—Axe stone J, Pierre de hache B, Beilstein *Em.* Punamu nephrite *Reuss.* Igida, Indian name, Céraunite—

h. DECOMPOSED. Feldspath décomposé H, Porcelaine clay J, Kaolin K, Porzallenerde—

Felspath adulaire *Brong.* 48 *b*
Fer—64
Fer argilleux grenu ou lenticulaire B, 64 v. m
Fer arg. jaspoïde B, 64 v. *k*
Fer arg. scapiforme B, 64 v. *d*
Fer arseniaté H, 64 viii.
Fer arsenical H, 12 iv.
Fer arsenical argentifère 12 iv.
Fer azuré *Méth.* 64 vii. *a*
Fer az. pulverulente H, 64 vii. *a*
Fer carburé H, 99
Fer chromaté H, B, 64 ix.
Fer chromé *Laugier*, 64 ix.
Fer de Framont *Méth.* 64 iii.
Fer de l'Isle d'Elbe *Méth.* 64 iii.
Fer hépatique *Deborn*, 64 iv. *a*
Fer magnetique B, 64 ii.
Fer mag. sabloneux B, 64 ii. *a*
Fer malléable natif *Delisle*, 64 i.
Fer météorique—82
Fer micacé B, 64 iii. *a*
Fer micacé rouge *Daub.* 64 v. *c*
Fer muriaté *Lucas*, 64 x.
Fer natif H, B, 64 i.
Fer natif météorique H, 82
Fer noir *Deborn*, 64 v. i.
Fer oligiste H. 64 iii.
Fer ol. argillifère compacte rouge H, 64 v. *b*
Fer ol. bacillaire conjoint H, 64 v. *d*
Fer ol. concretionné H, 64 v.
Fer ol. écailleux B, 64 iii. *a*
Fer ol. luisant H, 64 v. *c*
Fer ol. terreux H, 64 v. *e*
Fer oxydé argillifère massif H, 64 vi. *a*
Fer ox. carbonaté H, 64 vi.
Fer ox. brun fibreux *Brong.* 64 v. *f*
Fer ox. brun granuleux *Bron.* 64 v. *l*
Fer ox. brun ocreux *Brong.* 64 v. *g*
Fer ox. globuliform H, 64 v. *l*
Fer ox. graphique H, 64 v. *b*
Fer ox. hématite H, 64 v. *f*

Fer ox. de lacs *Lucas*, 64 vii. *b*
Fer ox. au minimum *Méth.* 64 v. i.
Fer ox. quarzifère H, 39 *c*
Fer ox. resinite *Lucas*, 64 vii. *c*
Fer oxydulé H, 64 ii.
Fer ox. fuligineux H, 64 v. *i*
Fer ox. titanifère H, 64 ii. *a*
Fer phosphaté H, 64 vii.—B, 76 iv.
Fer phos. azuré *Brong.* 64 vii. *a*
Fer phos. laminaire *Brong.* 64 vii.
Fer phos. au maximum *Méth.* 64 vii.
Fer phos. terreux—64 vii. *a*
Fer spathique *Méth.* 64 vi.
Fer spéculaire B, 64 iii.
Fer sublimé des volcans *Fauj.* 64 iii.
Fer sulfaté H, 122 *f*
Fer sulfuré H, 64 iv.
Fer sul. au maximum *Méth.* 64 iv.
Fer terreux bleu B, 64 vii. *a*
Fer titané *Cordier*, 64 ii. *a*
Fer volcanique *Méth.* 64 iii.
Ferricalcites *Kirw.* 64 vi.
Ferruginous wolfram—139 i.
Ferro-manganesian carbonate of lime—25 *n*
Fettstein—137 *d*
Feuerstein—50
Ferro aerato *Petr.* 64 vi.
Ferro nativo *Petr.* 64 i.
Ferrum—64
Fester uran ocher W, 134 i. *a*

49. FIBROLITE. Tables, xciv.

Fibrolite *Bournon*, H, Fibrolit *Kars.* Bournonite *Lucas*; a substance which accompanies Corundum, and is usually of a fibrous texture.

Fibrous gypsum J, K, 120 *b*
Fibrous limestone J, 25 *c*
Fibrous quartz K, 103 *m*
Fibrous zeolite J, 81
Figure stone J, 117 *b*
Fiorite *Thomson*, 91 *f* i.
Fish eyestone J, 9
Fischaugenstein W, 9
Fixed air—26 *a*
Fleurs de cinnabre *Delisle*, 80 iii. *a*
Fleurs de cobalt B, 37 iii.
Fleurs de cuivre bleues *Delisle*, 38 vi.
Fleurs de cuivre vertes *Delisle*, 38 vii.
Fleurs de manganèse—76 i. *a*

50. FLINT. Tables, xxi.

a. Compact. Flint J, K, Quarz-agathe pyromaque H, Feurstein W, Pierre à fusil B, Silex *Petr.* Pedernal *Herrg.*
i. Chert *Kidd*—Petrosilex of some authors.

b. Decomposed. Quarz nectique H, Schwimmstein *Kars.* Levi silex *Méth.* Schwimmkiesel *Haus.*

c. Brown. Egyptian jasper J, Egyptian pebble K, Jaspe Egyptien B, Calcedoine silex *Bournon*, Selce d'Egitto *Nap.* Quarz agathe onyx opaque H.

Flint slate J, 103 i.
Flokkenerz *Kars.* 70 vi.
Florid red copper ore K, 38 v.
Floss ferri—10 *b*
Floss niccoli *Wall.* 87 iii.

51. FLUATE of LIME. Tab. ix.

a. Cristallised. Fluor spar J. K, Chaux fluatée cristallisée H, Spath fluor B, Flus spath W, Fluorite *Nap.* Spath fusible *Delisle*,—the phosphorescent var. Chlorophane —also according to colour, *False* Amethyste, Emerald, Ruby, and Topaz.

b. Compact. Compact fluor J, Ch. fluatée compatto H, Dichter fluss W, Fluorite compatto *Nap.*

c. Earthy. Earthy fluor J, Chaux fluatée amorphe H, Erdiger fluss *Kars.* Fluss erd W.

Fluor spar J, K, 51 *c*
Fluss spath W, 51 *a*
Fluorite *Nap.* 51 *a*

Fluorite compatto *Nap.* 51 *b*
Fluss erd—51 *e*
Foliated carbonate of lime—25 *d*
Foliated chlorite J, 31 *b*
Foliated coal J, 36 *b*
Foliated prehnite J, 102
Foliated zeolite J, 118
Fortification agate—24 *d*
Fossil oil J, 20
Fossile vert *Leonhard*, 103 *l*
Fraueneis W, 120 *a*
French chalk—124 *a*
Fresh feldspar J, 48 *a*

52. FREISLEBEN. Tables, xcv.

A mineral so named by Moll after the mineralogist who first described it; its colour is greyish blue, or blue, it is fragile, scratches calcareous spar with difficulty, fracture, lamellated; lustre, shining; soft to the touch, and insoluble in water, *Lucas.*

53. FULLERS EARTH. lxxxiv.

Fullers earth J, Argile smectique H, Terre à Foulon B, Walkererde W, Creta cimolia of Pliny *Kidd.*

a. Cimolithe B, Argile cimolith *Brong.*

Fuscite *Schumacher*, 96

Gabbro *Desmarest*, 4 *a*
Gabbronite *Schumacher*, 48 *f*

54. GADOLINITE. Tables, lii.

Gadolinite J, H, Gadolinit W, Ytterbite—Zeolite noire *Geyer.* Klaproth has discovered the Kohle blend of Bornholm to be Gadolinite.

Gagate *Petr.* 36 *a*
Gahnite—112 *b*
Galena K, 70 ii.
Galena antimoniale *Petr.* 8 ii.
Galène B, 70 ii.
Galène antimonial *Méth.* 70 ii. *c*
Galène de bismuth B, 19 ii.
Galène compacte *Deborn*, 70 ii. *a*
Galène speculaire *Deborn*, 70 ii. *b*
Gänseköthiges silber *Reuss.* 37 iii. *a*
Gallizinite—128 i. *c*
Galmei W, 140 i.
Ganil K, 25 *g*

55. GARNET. Tables, xxxviii.

a. Precious. Precious garnet J, Grenat H, B, Edler granat W, Almandin *Kars.* Carbunculus of Pliny *Kidd*, Syrian garnet of the lapidary, Yellow var. Succinite and Topazolite *Bonvoisin.*

i. Pyrope J, W, Grenat granuliforme H, Grenat pyrop *Brong.* Karfunckel *Reuss.* Oriental garnet of the lapidary—

ii. Cinnamon stone J, Kaneelstein W, Cinnamite *Poggi.*

b. Common. Common garnet J, Grenat brun, rougeâtre, ou verdâtre H, Grenat ordinaire—Gemeiner granat W.

c. Black. Melanite J, B, W, Grenat noir de Frescati—Schlackiger granat *Kars.* Grenat émarginé noir H,—the Black garnet of the Pyrenees, Pyrenaït W.

d. Olive Green. Grossularia W, Grenat vert olive H, Olyntholith *Fisch.*

i. Aplome *appen.* H. Haüy considers this a distinct mineral.

ii. Allochroïte *Andrada*, Splittriger granat *Kars.* Green amorphous garnet—

e. Granular. Grenat resinite H, Pech granat *Kars.* Colophonit *Reuss.*

f. Manganesian. Grenat manganesié *Brong.* Manganèse granatiforme B, Braunstein kiesel *Reuss.* placed by some among the ores of Manganese—

Gèanthrace *Tondi*, 7 *a*
Gediegen platin W, 98

Gediegen sylvan w, 126 i.
Gediegen tellur *Reuss.* 126 i.
Gemeine braun kohle *Reuss.* 36 *c*
Gemeiner anthracite *Kars.* 7 *b*
Gemeiner asbeste w, 13 *b*
Gemeiner corund w, 39 *b*
Gemeiner kalzedon w, 24 *a*
Gemeiner opal w, 91 *c*
Gemeiner quarz w, 103 *n*
Gemeiner schorl w, 130 *b*
Gemeiner talk w, 124 *b*
Gelb menacanerz w, 128 ii.
Gelberz *Kars.* 126 iv.
Gesso compatto alabastro *Nap.* 120 c
Gesso fibroso *Nap.* 120 *b*
Geyerite *Méth.* 91 *f*
Giacinto et Giargone *Nap.* 141
Giada *Petr.* 48 *g* i.
Giallamina *Petr.* 140 i.
Gips *dichter*—120 *c*
Gips *faseriger* w, 120 *b*
Gips *späthiger Kars.* 120 *a*
Gipserde w, 120 *d*
Girasol *Delisle*, 91 *c* i.
Glance coal J, 7 *a*
Glanzkohle *muschliche* w, 7 *c*
Glanzerz *Kars.* 108 iv.
Glass schorl, Glass stein *Wid.* 15
Glasserz w, 108 iv.
Glasskopf *brauner* w, 64 v. *f*
Glasskopf *rother* w, 64 v.
Glasskopf *schwarzer* w, 64 v. *h*
Glassy actinolite J, K, 46 *a*
Glatter smaragd *Kars.* 45 *a*
Glauber salt J, K, 122 *c*
Glauberite *Brong.* 122 c
Glaubersalz *Kars.* 122 c
Glimmer w, 83

56. GOLD. Tables, cxix.

Or *Fr.* Gold *Ger.* Oro *Ital.* Aurum *Lat.*

Gold J, K, w, Or H, B.

a. Electrum *Klap.* Or argental—a combination of gold and silver in a state of purity.

Gold of nagyag—126 iii.

Goldish native silver J, 108 i. *a*
Gossan *brown* of Cornwall—139 i.
Goudron mineral B, 20 *b*
Grammatite H, 131
Granat *edler*, w, 55 *a*
Granat *gemeiner* w, 55 *b*
Granat *schlackiger Kars.* 55 *e*
Granat *splittriger Kars.* 55 *d* ii.
Granatit *Reuss.* 116
Granular actinolite J, 41 *a*
Granular augite—14 *b*
Granular carbonate of lead—70 iv. *b*
Granular corundum—39 *c*
Granular garnet—55 *e*
Granular limestone—25 *g*
Granular peridot—93 *b*
Granular quartz—103 *l*
Graphic ore J, 126 ii.
Graphit J, B, w, 99
Green amorphous garnet—55 *d* ii.

57. GREEN EARTH. Tab. lxxxii.

Green earth J, Terre verte B, Baldogée *Saussure*, Argile verde de monte Baldo *Nap.* Grün erde w, Terre de Verona—Talc chlorite zographique H.

Green earth is a production of the Flœtz formations, Chlorite occurs only in the older rocks.

Green lead ore J, 70 v.
Green quartz—103 *d*
Green sand of Peru K, 38 viii.

58. GREENSTONE. Tables, xxix.

Greenstone J, Grünstein w, B, Diorite H, Whinstone of Scotland.

Green tourmaline J, K, 130 *b*
Green vitriol—122 *f*
Grenat H, B, 55 *a*
Grenat blanc *Méth.* 72
Grenat brun H, 55 *b*
Grenat émarginé noir H, 55 *e*
Grenat granuliforme H, 55 *a* i.
Grenat manganesié *Brong.* 55 *f*
Grenat noir de Frescati—55 c

Houille papyracée H, 36 *b* i.
Houille piciforme B, 36 *a* i.
Houille scapiforme B, 56 *c* ii.
Houille schisteuse B, 36 *b*
Houille sèche *Brong.* 36 *a* i.
Houillite *Daub.* 7 *a*
Huille mineral commune B, 20 *a*
Humite *Bournon*, 112 *a*
Hyacinth J, K, B, 141 *a*
Hyacinthe de Compostello—103 *h*
Hyacinthe d'Expaillie—141 *a*
Hyacinthe de Somma *Méth.* 77
Hyacinthe du Vésuve *Delisle*, 135
Hyalite W, 91 *f* i.
Hyazinth W, 141 *a*
Hydrargillite *Davy*, 136
Hydrargill. de Schemnitz *Méth.* 2 *a*
Hydrargyrum—80
Hydrophane K, 91 *b*
Hydrolite *Mackenzie*, 91 *f*
Hydrolite *de Drée*, 5 *b*
Hyperstène H, 60
Hydrate d'alumine *Klap.* 136

60. HYPERSTÈNE. TABLES, XLIX.

Hyperstène H, Labrador hornblend J, Hornblend de Labradore B, Paulite W, Schiller spar—

a. Bergmannit *Schumacher*, probably a fibrous variety of Hyperstène.

b. Anthophyllite *Schumacher*, a substance from Kongsberg, probably a var. of Hyperstène, although placed as a separate species before Axinite by *Karsten*.

JADE K, 48 *g* i.
Jade *Saus.* 48 *g*
Jade ascien H. 48 *g* ii.
Jade néphritique H, *appen.* 48 *g* i.
Jargon B, 141

61. JASPER. TABLES, XXII.

a. Common. Jasper J, K, Jaspe B, Quarz jaspe H, Jaspis W, Diaspero *Petr.*

b. Opal Jasper J, Jaspe opal B, Opal jaspis W.

c. Porcellaine jasper J, Porcellanite K, Thermantide porcellanite H, Jaspe porcellaine B, Porzellan jaspis W.

Jaspe egyptien B, 50 *c*
Jaspe opal B, 61 *b*
Jaspe porcellaine B, 61 *c*
Jaspe sanguin—24 *c*
Jaspery clay iron stone J, 64 v. *k*
Jayet H, B, 36 *a*
Iceland agate—90
Iceland spar—25 *a*
Ichtiophtalme B, 9
Idocrase H, 135

62. JÉNITE. TABLES, LI.

Yénite, a name given to a mineral from Elba by Lelièvre in commemoration of the battle of Jena.—Lievrit W.

Jet K, 36 *a*
Igida—48 *g* ii.
Igloït W, 10 *a*
Imperfect corrundum *Bournon*, 39 *b*
Indianite *Bournon*, 48 *a*
Indicolit *Kars.* 130 *c*
Indicolithe *Andrada* 130 *c*
Indurated clay—101 *b*
Indurated talc J, 124 *a*
Inolite *Gall.* 25 *b*
Iridium *Tennant*, 98

63. IOLITE. TABLES, XCVI.

Iolithe H, W, Cordierite *Lucas* Dichroïte *Cordier*, considered by *Bournon* as a var. of quartz.

There is a substance from India which possesses some of the principal characters of this mineral, and has been considered Dichroïte; it is transparent; by transmitted light, it is of a grey colour in one direction, and of a deep indigo blue in another. It is usually brought to Europe in small polished masses, about the size of a nut. It has not been submitted to regular analyses, but contains nearly one-third of magnesia, upwards of one-half of silex, and about one-tenth of iron.

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64. IRON. Tables, cxx~~i~~v.

Fer *Fr.* Eisen *Ger.* Ferrum *Lat.* Hierro *Span.*

i. Native. *Fossil.* Native iron J, K, Eisen gediegen W, Fer natif H, B, Fer malléable natif *Delisle*, Hierro nativo *Herrg.* Ferro nativo *Petr.* Tellureisen *Kars.*

a. Meteoric.—See 82.

b. Native Steel. Acier natif pseudo volcanique H, Acier natif *Méth.*

ii. Magnetic. Magnetic iron stone J, Fer oxydulé H, Magnetic iron ore K Fer magnetique B, Aimant *Delisle*, Magnet eisenstein W, Mina de Hierro magnetico *Herrg.*

a. Magnetic iron sand J, Magnetic sand K, Fer magnetique sablonneux B, Eisensand W, Fer oxydulé titanifère H, Fer titané *Cordier.* These two last are probably the same as the Granular titanium—Arena de hierro magnetico *Herrg.*

b. Magnetic pyrites K, Fer sulfuré ferrifère H, Magnet kies W.

iii. Specular. Iron glance J, Specular iron ore K, Fer oligiste H, Fer spéculaire B, Eisenglanz W, Fer sublimé des volcans *Faujas*, Fer de l'Isle d'Elbe, de Framont, et volcanique *Méth.* Miniera di Acciajo *Petr.*

a. Scaly. Iron mica J, Micaceous iron ore K, Fer oligiste écailleux H, Eisen glimmer W, Hierro micaceo *Herrg.* Fer micacé B.

iv. Sulphuret. Iron pyrites J, Martial pyrites K, Fer sulfuré H, Mine sulfureuse de fer *Mongez*, Fer sulfuré au maximum *Méth.* Pirita de azufre *Herrg.* Schwefelkies W, Marcassites *Delisle.*

a. Hepatic pyrites K, Liver pyrites J, Pyrite sul. épigène H, Pyrite hépatique B, Pyrite brune martiale *Bomare*, Fer hépatique *Deborn*, Pirita hepatica *Herrg.* Leberkies *Kars.*

b. Capillary pyrites,—found to be Native nickel.

v. Oxide.

a. Red. Red hematite J, K, Fer oligiste concretionné H, Rother glaskopf W, Amatita *Petr.* Hématite B, Kidney iron ore—

b. Reddle J, Fer oxydé graphique, ou Fer oligiste argillifère compacte rouge H, Sanguine *Deborn*, Crayon rouge B, Röthel W, Red chalk—Ochriger Thoneisenstein *Kars.*

c. Red iron froth J, Red scaly iron ore K, Fer oligiste luisant H, Eisenrahm rouge B, Rother eisenrham W, Hématite friable *Delisle*, Hématite rouge écailleuse *Méth.* Fer micacé rouge *Daub.* Eisenrahm roxo *Herrg.* Schuppiger rotheisenstein *Kars.*

d. Columnar clay iron stone J, Fer oligiste bacillaire conjoint H, Fer argilleux scapiforme B, Fer limoneux en prismes *Deborn*, Stängliger thoneisenstein W.

e. Red ochre K, Fer oligiste terreux H, Eisenokker W, Ochriger rotheisenstein *Kars.*

f. Brown. Brown hematite J, K, Fer oxydé hématite H, Fer oxyde brun fibreux *Brong.* Brauner glasskopf W.

g. Brown iron ochre K, Fer ox. brun ocreux *Brong.*Ocre martiale brune *Delisle*, Braun eisen okker W, Ochriger braun eisenstein *Kars.* Ocro de hierro pardo *Herrg.*

h. Black. Black hematite J, Schwarzer glasskopf W, Hématite noire, en boules à cassure fibreuse *Deborn.*

i. Fer noir, ou Ethiops martial natif *Deborn*, Fer ox. au minimum *Méth.* Fer oxydulé fuligineux H, Eisenschwärze *Reuss.*

k. Jaspery clay iron stone J, Fer argilleux jaspoïde H, Compact clay iron stone—

l. Pea ore J, Fer oxydulé brun granuleux *Brong.* Fer oxydé globuliforme H, Kuglicher thoneisenstein *Kars.* Bohnerz W.

m. Lenticular clay iron stone J, Fer argilleux grenu ou lenticulaire B, Körniger thoneisenstein W.

D'Aubuisson proposes to establish a new species among the irons, comprehending under the name of Hydrates, the Brown Hæmatites, Pea ore, Lenticular clay iron stone, and all those distinguished in the chemical tables, by the loss of a considerable portion of their weight by calcination, supposed to be water.—*Jour. des Mines vol.* 28.

vi. Carbonate. Sparry iron stone J, Calcareous, or Sparry iron ore, also Ferricalcites K, Fer oxydé carbonaté, formerlyChaux carbonatée ferrifère H, Fer spatique B, Spath fusible *Delisle*, Fer spathique, ou mine d'acier *Méth.* Ferro aerato *Petr.* Piedra de acero *Herrg.* Spath eisenstein W, Steelstone—

a. Common clay iron stone J, Com. argillaceous iron ore K, Fer ox. argillifère massif H, Mine de fer limoneuse en roche *Delisle.*

vii. Phosphate. Fer phosphaté cristallisé H, Schorl bleu de Siberie *Macquart*, Bleu martial fossile cristallisé *Sage*, Fer phosphaté au maximum *Méth.* Fer phosphaté laminaire *Brong.*

a. Earthy. Blue iron earth J, Fer phos. terreux, formerly Fer azuré pulverulent H, Prussiate de fer natif *Deborn*, Blue martial earth K, Fer terreux bleu B, Fer azuré *Méth.* Fer phos. azuré *Brong.* Blaue eisenerde W.

b. Pulverulent. Bog ore J, Morass, Swamp, and Meadow ore K, Rasen eisenstein *Kars.* Morassterz, Sumpferz, Wiesenerz W. Mine de marais, des lieux bourbeux et de prairies B, Fer oxydé des lacs *Lucas.*

c. Massive. Pitchy iron ore J, Eisenpecherz W, Manganèse phosphaté *Brongniart*, Fer oxydé resinite *Lucas.* Pecherz ferrugineux *Meth.* Pittizit *Haus.*

viii. Arseniate. Cube ore J, Fer arseniaté H, Wurfelerz W, Mina cubica *Herrg.* Cupreous arseniate of iron *Bournon*, Cuivre ars. ferrifère B.

ix. Chromate. Chromate of iron J, Fer chromaté H, Chrome oxydé ferrifère *St Memin*, Fer chromé *Laugier*, Eisenchrom *Kars.*

x. Muriate. Fer muriaté *Lucas*, Pyrodmalith *Hausman.*

Iron glance J, 64 iii.
Iron flint J, 103 *h*
Iron mica J, 64 iii *a*
Iron pyrites J, 64 iv.
Iron vitriol J, 122 *f*

Iserin *Kars.* 128 i. *c*
Julla—36
Jupiter—127 i.

Kalksinter w, 10 *b*—25 *b*
Kalkspath w, 25 *a*
Kalkstein *excentrischer Kars.* 10 *a*
Kalkstein *faseriger* w, 25 *c*
Kalkstein *dichter* w, 25 *h*
Kalkstein *körniger* w, 25 *g*
Kalkstein *spätiger Kars.* 25 *a*
Kalzedon *gemeiner*—24 *a*
Kalzedonartiger kieselsinter *Hausman* 91 *f*
Kallochrom *Haus.* 70 vii.
Kaneelstein w, 55 *a* ii.
Kännel kohle w, 36 *a* ii.
Kaolin K, 48 *h*
Karabé *Deborn*, 3
Karfunckel *Reuss.* 55 *a* i.
Karneol w, 24 *c*
Karstenit *Haus.* 120 *c*
Katzenauge—103 *g*
Keffikill K, 75 *b* i.

65. KEFFEKILITHE. Tab. xcvii.

A name given by Fischer of Moscow, to a mineral from the Crimea, which is supposed by Leonhard to be an indurated Lithomarga.

Kermes mineral natif *Deborn*, 8 iv.
Kératite *Méth.* 24 *g*
Kidney iron ore J, 64 v.
Kiesel guhr *Klap.* 68 *d*
Kiesel schiefer w, 103 i.
Kieselsinter *gemeiner Kars.* 91 *f*
Kilkenny coal—7 *b*
Klaprothite *De Drée*, 69 *a*
Klebschiefer w, 1
Klingstein w, 35
Kobalt—37
Kobalt blüthe *Kars.* 37 iii.
Kobalt glanz *Kars.* 37 i. *b*
Kobalt mulm w, 37 ii.
Kobalt vitriol w, 122 i.
Kohle—36
Kohlenblende *Est.* 7 *a*
Kohlenblende of Bornholm—54
Kohlenstoffsäure *Germ.* 26 *a*
Kokkolithe w, 14 *b*
Kolyrite *Kars.* 2 *a*
Korallenerz—80 iii. *b*
Koréïte *Méth.* 117 *c*
Koernerkrenerz of Hesse—38 ii. *b*
Körniger augite *Kars.* 14 *b*
Körniger thoneisenstein—64 v. *m*
Körnisches zinnerz w, 127 i. *a*
Korund *gemeiner* w, 39 *b*
Koupholite B, 102
Kreide w, 25 *f*
Kreuzstein w, 59
Krisoberyll w, 33
Kryolith w, 2 *b*
Krysolith w, 93 *a*
Krysopras w, 24 *f*
Kubezit w, 5 *a*
Kuglicher thoneisenstein *Kars*, 64 v. *l*
Kupfer—38
Kupfer blüthe *Wid.* 38 v. *a*
Kupfer *gediegen* w, 38 i.
Kupfer vitriol—122 *g*
Kupfer *salsaures* w, 38 viii.
Kupfer schwärze—38 ii. *a*
Kupfererz *phosphor* w, 38 ix.
Kupferglanz *Kars.* 38 ii.
Kupferglass w, 38 ii.
Kupferglimmer w, 38 x. ii.
Kupfergrün w, 38 vii.
Kupfergrün *cristallis. Est.* 38 vii. *b*
Kupferkies w, 38 iii.
Kupferlazur w, 38 vi.
Kupfernickel w, 87 ii.
Kupfersmaragd w, 38 vii. *b*
Kyanite w, 105

Labrador hornblend J, 60
Labradorische hornblende *Emm.* 41 *b*
Labradorite *Méth.* 48 *c*
Labradorstone J, K, 48 *c*
Lac lunæ—25 *f* i.
Lait de montagne B, 25 *f* i.

Laminated talc—124 *b*
Lapis lazuli K, 69
Lapis lydius *Wall.* 103 i.
Lapis mutabilis—91 *b*
Lardite *Petr.* 117 *a*
Lasulit de Werner H, 69 *a*

66. LATIALITE. TABLES, XCVIII.

Latialite H, Haüyn *Kars.* Saphirin *Nose*, Lazulith de Somma *Breyslac*, Spinelle bleu *Cordier.* A blue coloured mineral found among the volcanic products of Italy.

67. LAUMONITE. TABLES, LX.

Laumonite H, formerly Zeolithe efflorescente—Mesotype laumonite *Brong.* Lomonite J.

68. LAVA. TABLES, XXVI.

a. Lava J, K, Lave B, Lave lithoïde H, Lave proprement dite *Dolomieu.*
b. *Vesicular.* Pumice J, K, Lave vitreuse pumicée H, Pierre de Ponce B, Bimstein W.
c. *Earthy.* Moya *Klap.* Volcanic mud of Quito.
d. *Pulverulent.* Kiesel ghur *Klap.* Volcanic ashes—

Lave lithoïde basaltique H, 17
Lave vitreuse obsidienne H, 90
Lave vitreuse pumicée H, 68

69. LAZULITE. TABLES, LVIII.

Azure stone J, Lapis lazuli K, Lazulite H, Zeolithe bleue *Deborn*, Zeolite turchina o Lapis lazzoli *Petr.* Lazurstein W.
a. Lasulit de Werner H, Klaprothite *De Drée*, Tyrolite et voraulite *Méth.* Faux lapis *Stütz*, Blauspath W, Lazulit gemeiner *Kars.*

Lazulit *gemeiner Kars.* 69 *a*
Lazulit *splittriger Kars.* 48 *e*
Lazulithe de Somma *Breyslac*, 66
Lazurstein W, 69

70. LEAD. TABLES, CXXII.

PLOMB *Fr.* BLEI *Ger.* PLUMBUM *Lat.* PLOMO *Span.* PIOMO *Ital.*—SATURN of the *Alchimists.*

i. NATIVE. Plomb natif volcanique H.
ii. SULPHURET. Lead glance J, Galena K, Plomb sulfuré H, Galène B, Bleiglanz W, Alquifoux ou mine de vernis des potiers *Lucas.*
a. Compact lead glance J, Compact galena K, Plomb sulfuré compacte H, Galène compacte *Deborn*, Bleischweif W.
b. Plomb sul spéculaire H, Galène spéculaire *Deborn*, Slickensides of Derbyshire.
c. Plomb sulfuré antimonifère H, Galène antimonale *Méth.* Spiesglanz blei *Kars.*
d. Plomb sul. antimonifère et argentifère H, White silver ore J, Light grey silver ore K, Mine blanche riche B, Argent blanc *Brong.* Mina de plata blanca *Herrg.* Weisgultigerz W, Argent blanc de Freyberg—
e. Cupreous antimonial sulphuret—Antimonial sul. of lead *Thoms.* Tripple sulphuret *Hatchet*, Endelion *Bournon*, Bournonite J.
iii. OXIDE. Lead earth J, Native ceruse K, Plomb oxydé H, Plomb terreux B, Bleierde W.
a. Native minium *Smithson*, Plomb ox. rouge *Lucas.*
iv. CARBONATE. White lead ore J, K, Plomb carbonaté H, Plomb blanc B, Weisbleierz W, Plomo blanco *Herrg.*
a. Black lead ore J, Plomb carb. noir H, Mine de plomb noire B, Plomo negro *Herrg.* Schwarz

bleierz w, Dunkler bleispath *Kars.*

b. Lead earth J, Bleierde w, Compact or granular carb. of lead—

v. PHOSPHATE. Brown and green lead ore J, Phosphorated lead ore K, Plomb phosphaté H, Plomb vert B, Braun and grün bleierz w, Gemeines phosphorblei *Kars.* Pyromorphit *Haus.*

a. Blue lead ore J, K, Plomb bleu B, Blau bleierz w, Plomb sulfuré épigène H.

b. Plomb phosphaté arsenifère H, Plomb arseniaté *Mohr*, Muschliges phosphorblei *Kars.* Traubenerz *Klap.*

vi. ARSENIATE. Plomb arsenié H, B, Bleiniere w. Flokkenerz *Kars.* Massicot natif—

vii. CHROMATE. Red lead ore J, Red lead spar K, Plomb chromaté H, Plomb rouge B, Plomb spatique rouge *Pallas*, Plomo roxo espatico *Herrg.* Rothbleierz w, Kallochrom *Haus.*

a. Plomb chromé *Bournon.*

viii. MOLYBDATE. Yellow lead ore J, Yellow molybdenated lead ore K, Plomb molybdaté H, Plomb jaune B, Plomo amarillo *Herrg.* Gelb bleierz w.

ix. SULPHATE. Natural lead vitriol J, Native vitriol of lead K, Plomb sulfaté H, Vitriol de plomb natif B, Blei vitriol w.

x. MURIATE. Plomb muriaté B, Hornblei w, Murio-carbonate of lead—

Lead earth J, 70 iii.
Lead glance J, 70 ii.
Lead vitriol J, 70 ix.
Leberkies *Kars.* 64 iv. *a*
Leberstein *Crons.* 16 *a* iv.
Lehmanite *Méth.* 48 *g*
Lenticular clay iron stone J, 64 v. *m*

71. LEPIDOLITE. TABLES, LXX.

Lepidolite J, Lepidolithe H, Lilalit *Poda*, Gyps violet de Rosena *Deborn*, Lepidolita *Herrg.* White var. from Sweden, Petalite according to *De Drée.*

72. LEUCITE. TABLES, XXXIX.

Leucite J, Amphigène *c'est à dire* que a une double origine H, Vesuvian K, Grenat blanc *Méth.* Grenatite *Daub.* Leucolite *Nap.* Leucite *Herrg.* Leuzit w, White garnet—

Leucolite *Nap.* 72
Leucolithe d'Altenberg *Métherie*, 129 *appen.* i.
Leucolithe de Mauléon *Méth.* 43
Leuttrite *Lucas*, 25 i.
Leuzit w, 72
Levisilex *Méth.* 50 *b*
Lherzolite *Méth.* 14 *c*
Lidischerstein w, 103 i.
Liége de montagne B, 13 *c*
Lievrit w, 62
Light grey silver ore K, 70 ii. *d*
Lignite friable *Brong.* 36 *c* iii.
Lignite jayet *Brong.* 36 *a*
Lignite terreux *Brong.* 36 *c* iv.
Ligniform asbestus K, 13 *d*
Ligno bituminoso *Petr.* 36 *c* i.
Ligno montaño *Nap.* 13 *d*
Lilalit *Poda*, 71
Limestone *compact*—25 *h*
Limestone *granular*—25 *g*

73. LIMBELITE. TABLES, XCIX.

Limbelite *Saus.* Peridot alteré *Brard.*—found at Limbourg in the cavities of Basaltic porphyry.

Lino fossile *Nap.* 13 *a*
Lino de Piedra amianto *Herrg.* 13 *a*
Linsenerz w, 38 x.
Liquid bitumen—20 *a*

74. LITHOMARGA. TAB. LXXXVI.

Lithomarge J, H, Lithomarga K, Moëlle de Pierre B, Steinmark W.

Lithéosphore *Méth.* 16 *a* iii.
Liverpyrites J, 64 iv. *a*
Liverstone K, 16 *a* iv.
Lomonite J, 67
Lotalalite *Siverguine*, 41 *a*
Lustsaures silber *Wid.* 108 v.
Lux saphir—39 *a*
Lydianstone J, 103 i.
Lydienne *Méth.* 103 i.
Lythrodes—137 *d*

MACLE H, 30
Madréporite H, B, 25 *m* iii.
Madreporstein *Kars.* 25 *m* iii.
Magnélithe *Hopf.* 48 *g*

75. MAGNESIA. TABLES, XVI.

a. NATIVE. Native magnesia *Bruce*, Magnésie pûre, ou Magnésie hydratée *Lucas*, Magnesie native B, Magnesite—

b. CARBONATE. Native talk earth J, Native magnesia *Thomson* Magnésie carbonatée H, Magnésie native B, Magnesite de Mitchel *Brong.* Baudisserite, Roubschite *Méth.* Reine talkerde W.

i. Meerschaum J, W, Ecume de mer—Magnésite ecume de mer *Brong.* Keffikil also Myrsen K.

c. BORATE. Boracit J, W, B, Boracited calx K, Chaux boracique *Deborn*, Spato sedativo *Nap.* Quarz cubique——Würfelstein *Westr.* Magnésie boratée H.

Magnesian carb. of lime—25 *l*
Magnésie boratée H, 75 *c*
Magnésie carbonatée H, 75 *b*
Magnésie hydratée—75 *a*
Magnésie ferrifère capillaire H, 122 *c* i.
Magnésie native B, 75 *b*
Magnésie pûre—75 *a*
Magnésie sulfatée H, 122 *c*
Magnesite—75 *a*
Magnésite ecume de mer *Brong.* 75 *b*
Magnésite de Mitchel *Brong.* 75 *b*
Magnet eisenstein W, 64 ii.
Magnetkies W, 64 ii. *b*
Magnetic iron ore K, 64 ii.
Magnetic iron stone J, 64 ii.
Magnetic sand K, 64 ii. *a*
Malachite K, J, B, W, 38 vii.
Malacolite *Abild.* 104
Malta *Petr.* 20 *b*
Mangan *Kars.* 76

76. MANGANESE. TABLES, CXXXI.

MANGANESE *Fr.* BRAUNSTEIN *Ger.* MANGAN *Kars.*

De la Perouse described in the Memoires de l'Academie de de Toulouse for 1782, a mineral from Vicdessos under the name of Native manganese; which, although a production of the eastern Pyrenees, has not subsequently become known to mineralogists.

i. OXIDE. Grey ore of manganese J, K. Manganèse oxydé H, Manganèse gris B, Manganesa radiada *Herrg.* Grau braunsteinerz W, Grau manganerz *Kars.*

a. Mang. ox. metalloïde argentifère H, Manganschaum *Kars.* Espuma de manganesa *Herrg.* Fleurs de manganèse—

b. *Earthy.* Manganèse ox. noir brunâtre H, Verhärtetes schwarz manganerz *Kars.* Ochro de manganesa *Herrg.*

c. *Bituminous.* Manganèse ox. terreux bituminifère H, Mang.

inflammable *Beurard*, Wad *Kars.* Black wad des Anglais *Lucas.*

d. Cobaltic manganese. The ore of Ringersdorff is a combination of this description according to Klaproth.

ii. Carbonate. Red ore of manganese K, Manganèse ox. carbonaté, formerly Rose silicifère H, Roth braunsteinerz W, Roth Manganerz *Kars.* Manganèse carbonaté *Méth.* Manganèse lithoïde rouge *Brong.* Manganèse rouge B.

iii. Sulphuret. Manganèse sulfuré H, Sulfure de manganèse *Proust*, Mangan glanz *Kars.*

iv. Phosphate. Pitchy iron ore J, Manganèse phosphaté ferrifère H, Fer phosphaté B, Manganèse et Fer phosphatés *Méth.* Phosphormangan *Kars.*

Manganerz *grau Kars.* 76 i.
Manganerz *roth Kars.* 76 ii.
Manganesa radiada *Herrg.* 76 i.
Manganèse carbonatée *Méth.* 76 ii.
Manganèse granatiforme B, 55 *f*
Manganèse gris B, 76 i.
Manganèse inflammable *Beurard*, 76 i. *c*
Manganèse lithoïde rouge H, 76 ii.
Manganèse oxydé H, 76 i.
Manganèse ox. carbonaté H, 76 ii.
Manganèse ox. metalloïde argentifère H, 76 i. *c*
Manganèse ox. noir brunâtre H, 76 i. *b*
Manganèse ox. rose silicifére 76 ii.
Manganèse ox. terreux bituminifère H, 76 i. *c*
Manganèse phosphaté, *Brong.* 64 vii. *c.*
Manganèse rouge B, 76 ii.
Manganèse phos. ferrifère H, 76 iv.
Manganèse sulfuré H, 76 iii.
Manganesian garnet—55 *f*
Manganglanz *Kars.* 76 iii.
Manganschaum *Kars.* 76 i. *a*
Marcassitta *Petr.* 12 iv.
Marcassites *Delisle*, 64 iv.
Marekanite B, 90 *a*
Marle earth J, 25 i.
Marne argilleuse *Brong.* 25 *i*
Marne terreuse B, 25 *i*,
Martial pyrites K, 64 iv.
Mascagnin *Kars.* 122 *b*
Meadow ore J, 64 vii. *b*
Massicot natif—70 vi.
Mealy zeolite J, 81 *a*
Méconites—25 *e* i.
Meerschaum—75 *b* i.
Mehlbaz—25 *h*
Mehlzeolith W, 81 *a*

77. MEIONITE. Tables, xli.

Méïonite, *c'est à dire* moindre ou inférieur H, Hyacinthe de la Somma *Méth.*

Melanite J, W, B, 55 *c*
Mélantherite *Méth.* 44

78. MELILITE. Tables, c.

Melilite H, B, a mineral found in the clefts of lava at Capo di Bovi.

79. MELLITE. Tables, cxiii.

Honeystone J, Mellilite K, Mellite H, Pierre de miel B, Succin cristallisé *Deborn*, Alumine mellatée *Méth.* Piedra melada *Petr.* Honigstein W.

Menacan W, 128 i. *c*
Menacanerz *braun & gelb* W, 128 ii.
Menachine *Gregor*, 128
Menachinite J, 128 i *c*
Ménakanite *Brong.* 128 i. *c*
Ménilite W, 91 *d*
Mercure—80
Mercure argental H, 80 ii.
Mercure corné H, 80 iv.
Mercure coulant *Delisle*, 80 i.
Mercure doux natif *Delisle*, 80 iv.
Mercure hépatique H, 80 iii. *b*
Mercure muriaté H, 80 iv.

Mercure natif H, 80 i.
Mercure sulfuré H, 80 iii.
Mercure sul. bituminifère H, 80 iii. *b*
Mercure vierge *Delisle*, 80 i.

80. MERCURY. Tables, cxxi.

Mercure *Fr.* Azogue *Span.* Hydrargyrum *Lat.* Quicksilber *Ger.*

i. Native. Native quicksilver J, Native mercury K, Mercure natif H, Mercure vierge ou coulant *Delisle*, Azogue nativo *Herrg.* Gediegen quicksilber W.

ii. Argentiferous. Amalgam J, W, B, Mercure argental H, Amalgama nativo de Plata *Herrg.*

iii. Sulphuret. Cinnabar J, Native cinnabar K, Mercure sulfuré H, Cinnabar B, Mine de mercure sulfureuse *Delisle*, Oxyde de mercure sulfuré rouge *Deborn*, Cinabrio *Herrg.* Zinnober W.

a. Pulverulent. Native vermillion—Fleurs de cinnabre *Delisle.*

b. Hepatic. Quicksilver liver ore J, Hepatic mercurial ore K, Mercure sulfuré bituminifère H, Mercure hépatique B, Mina de azogue hepatico *Herrg.* Quicksilber lebererz W, Testaceous var. Korallenerz—

c. Earthy. Black friable cinnabar J, Ethiops mineral natif B, Natürlicher mineral mohr W.

iv. Muriate. Quicksilver horn ore J, Corneous mercurial ore K, Mercure muriaté H, Mercure corné B, Mercure doux natif *Delisle*, Mina de azogue corneo *Herrg.*

Merda de Diavolo—36 *b* i.
Mere d'emèraude *Nonnull*, 24 *f*
Mergelerde W, 25 *i*
Mergelschiefer *bituminœser* W, 25 *k*

81. MESOTYPE. Tables, lix.

Radiated, Fibrous, and Needle-zeolite J, Mésotype, *c'est à dire* forme primitive moyenne H, Mésotype zeolite *Brong.* Faser zeolith and Nadelstein W, Prismatischer and Faser zeolith *Kars.*

a. Farinaceous. Mealy zeolite J, Mésotype alterée H, Zeolithe farineuse B, Mehl zeolith W.

b. Brick coloured. Zeolithe rouge d'Edelfors H, Edelite B, Mésotype crocalite *Brong.* Crocalite *Est.*

Mésotype alterée H, 81 *a*
Mésotype concretionnée, &c. H, 86
Mésotype crocalite *Brong.* 81 *b*
Mésotype laumonite *Brong.* 67
Meteoreisen *Kars.* 82
Meteoric iron—82

82. METEOROLITE. Tab. cxli.

Thunderstone—Moonstone—Aerolithe—Bolide—Ceraunite—Pierre de Tonnère, &c.

Meteoric iron—Fer natif météorique H, Meteoreisen *Kars.*

From the investigations of Pallas and Ruben de Celis, no doubt seems now to remain that the celebrated masses of native iron, found in Siberia and South America are of meteoric origin. The circumstances under which they were both discovered, first suggested this idea, which has been very amply confirmed by the subsequent chemical investigations of Mr Howard.

83. MICA. Tables, lxxi.

Mica J, K, H, B, Talc *Daub.* Glimmer W, Schisolith *Haus.* Muscovy glass—

Mica vert *Leske*, 134 i.

Micaceous iron ore K, 64 iii. *a*
Micaceous uranitic ore K, 134 i.
Micarelle K, 96
Micarelle *Abild.* 137 *c*
Miémite *Reuss.* 25 *l*
Mikaphyllite *Brunner*, 6
Milch quarz W, 103 *f*
Milk quartz J, 103 *f*
Mina arsenical blanca *Herrg.* 12 iv.
Mina de azogue corneo *Herrg.* 80 iv.
Mina de azogue hepatico *Herrg.* 80 iii. *b*
Mina cubica *Herrg.* 64 viii.
Mina de hierro magnetico *Herrg.* 64 ii.
Mina de plata blanca *Herrg.* 70 ii. *d*
Mina de plata negra *Herrg.* 108 iii. *a*
Mina de plata roxa *Herrg.* 108 iii.
Mina de plata vidriosa *Herrg.* 108 iv.
Mine d'argent antimoniale *Daub.* 108 ii.
Mine d'argent grise *Mongez*, 38 iv.
Mine d'argent en plumes—8 ii.
Mine blanche riche B. 70 ii. *d*
Mine de cuivre antimoniale *Deborn*, 38 iv.
Mine de cuivre jaune *Deborn*, 38 iii.
Mine de cuivre vitreuse rouge *Delisle*, 38 v.
Mine de fer limoneuse en roche *Delisle*, 64 vi. *a*
Mine de lieux bourbeux B, 64 vii. *b*
Mine de mercure sul. rouge *Deborn* 80 iii.
Mine de mercure sulfureuse *Delisle*, 80 iii.
Mine de marais B, 64 vii. *b*
Mine de plomb noire B, 70 iv. *a*
Mine de prairies B, 64 vii. *b*
Mine sulfureuse de fer *Mongez*, 64 iv.
Mine de vernis des potiers *Lucas*, 70 ii.
Mineral cahouchou K, 20 *c*
Mineral mohr *natürlicher* W, 80 iii. *c*
Mineral pitch J, Mineral tar—20 *b*
Miniera di Acciajo *Petr.* 64 iii.
Miroitante *Méth.* 41 *b*
Mispickel *Delisle*, 12 iv.
Mittelstein—25 *m*
Mock diamond—141
Moëlle de pierre B, 74
Mohr *mineral* W, 80 iii. *c*
Molarite *Méth.* 103 *n* i.
Molíddeno *Petr.* 84

84. MOLYBDENA. Tab. cxxxiv.

Molybdene J, Molybdène sulfuré H, Plomo de agua *Herrg.* Wasserblei W, Molybdänglanz *Kars.* Molíddeno *Petr.*

Molybdate of lead—70 viii.
Moonstone K, 48 *b*
Moonstone—82
Moorcoal J, 36 *c* iii.
Moorkohle W, 36 *c* iii.
Morass ore J, 64 vii. *b*
Morassterz W, 64 vii. *b*
Moroxite *Kars.* 94 *a*
Mountain cristal K, 103 *a*
Moya *Klap.* 68 *c*
Mountain green J, 38 vii. *a*
Mountain leather—13 *c*
Mountain paper—13 *c*
Müllersglass—91 *f* i.
Muriacit *Klap.* 120 *e*
Muriacite *Fichtel*, 85 *b*
Muriate of ammonia—85 *c*
Muriate of copper—38 viii.
Muriate of lead—70 x.
Muriate of mercury—80 iv.
Muriate of silver—108 vi.
Muriate of soda—85 *b*
Muriated antimony—8 iii.

85. MURIATIC SALTS. Tab. iv.

a. Native. Acid muriatique *Lucas*, Acid of sea salt—Salzsäure W, Acido muriatico *Petr.* sometimes occurs in rock salt, and also in the waters of volcanic countries.

b. Muriate of Soda. Rock salt J, Sal gemme K, Soude muriatée H, Sel de cuisine B, Steinsalz W, Common salt—Alkali mineral muriatique *Berg.* Soude muriatée gypsifère *Brong.* Muriacite *Fichtel.*

c. MURIATE OF AMMONIA. Sal ammoniac J, K, Ammoniaque muriaté H, Sel ammoniac natif B, Alkali volatil muriatique *Delisle*, Salmiak *Kars.*

Muricalcite K, 25 *l*
Murio-carbonate of lead—70 x.
Muschliche glanzkohle W, 7 *c*
Muschliges phosphorblei *Kars.* 70 v. *b*
Muscovy glass—83
Mussite—104
Myrsen K, 75 *b* i.

NACRITE *Brong.* 124 *e*
Nadelerz W, 19 ii. *a*
Nadelstein W, 81
Nadelstein—128 i.
Nagiagerz W, 126 iii.
Nagyker ore J, 126 iii.
Naphta—20 *a*
Naphte *Deborn*, 20 *a*
Native alum K, 122 *d*
Native antimony J, K, 8 i.
Native argile K, 2 *a*
Native arsenic J, K, 12 i.
Native bismuth J, K, 19 i.
Native borax—22
Native calx of arsenic K, 12 ii.
Native carbonic acid—26 *a*
Native ceruse K, 70 iii.
Native cinnabar K, 80 iii.
Native copper J, K, 38 i.
Native iron J, K, 64 i.
Native lead—70 i.
Native magnesia *Bruce*, 75 *a*
Native magnesia *Thoms.* 75 *b*
Native manganese *Perouse*, 76
Native mercury K, 80 i.
Native muriatic acid—82 i.
Native mineral carbon K, 7 *a*
Native nickel—87 i.
Native quicksilver—80 i.
Native silver J, K, 108 i.
Native steel—64 i. *b*
Native sulphuric acid—122 i.
Native sylvan J, 126 i.
Native talc earth J, 75 *b*
Native vermilion—80 iii. *a*
Native vitriol of lead K, 70 ix.

86. NATROLITE. TABLES, XLIV.

Natrolit J, Mésotype concretionnée mamelonnée jaunâtre et jaune rougeâtre, à tissu fibreux et serré H, Hoegaüit *Selb.* Zeolithe jaune de Schaffhousen *Bellevue.*

Natrolite of Sweden—137 *d*
Natron *Kars.* 26 *b*
Natron des anciens *Lucas*, 26 *b*
Natural epsom salt—122 *c*
Natural lead vitriol J, 70 ix.
Natural soda J, 26 *b*
Natürlicher vitriol W, 122 *f*
Needle ore J, 19 ii. *a*
Needle zeolite J, 81
Némate H, 92 *a*
Néopetre *Saus.* 24 *g*
Nephéline H, B, 110
Nephrit *Kars.* 48 *g* i.
Niccolanum *Richter*, 87 iii. *a*
Nichelio—87

87. NICKEL. TABLES, CXXIII.

NICCOLUM *Lat.* NICHELIO *Ital.*

i. NATIVE. Nickel natif H, Gediegen nikkel *Klap.* Haarkies W, Pyrite capillaire B, Capillary pyrites—Hair pyrites J. This substance has been placed under the heads of both Iron and Bismuth.

ii. ARSENICAL. Copper nickel J, Nickel arsenical H, Kupfernikkel W, Nicolo de cobre *Herrg.*

iii. Oxide. Nickel ochre J, K, Nickel oxydé H, Ocre de nickel B, Floss niccoli *Wall.* Carb. de nickel *Daub.* Nikkel okker W, Earthy var. Pimelite *Kars.*

a. Niccolanum; the supposed new metal of *Richter*, has been found to be a compound of Nickel and Cobalt, with a trace of Iron and Arsenic, by *Hisinger* and *Gehlen.*

iv. Antimonial.

Nickel arsenical H, 87 ii.
Nickel ochre J, K, 87 iii.
Nickel okker W, 87 iii.
Nickel oxydé H, 87 iii.
Nicolo de cobre *Herrg.* 87 ii.
Nigrica *Wall.* 44
Nigrin *Kars.* W, 128 i. *c*
Nigrine J, 128 i. *c*
Nikkel *gediegen Kars.* 87 i.
Nitre J, K, 89 i.
Nitre calcaire *Deborn*, 89 ii.
Nitre des anciens *Lucas*, 26 *b*
Nitrate of potash *Thoms.* 89

89. NITRIC SALTS. Tables, iii.

i. Nitrate of Potash. Nitre J, K, Potasse nitratée H, Alkali végétal nitré *Berg.* Nitrate of potash *Thoms.* Salpeter *Kars.*

ii. Nitrate of Lime. Nitrous selenite K, Chaux nitratée H, Nitre calcaire *Deborn*, Nitro calizo *Herrg.*

Nitrous selenite K, 89 ii.
Novaculite K, 138
Nuovas minas—129

90. OBSIDIAN. Tables, xxv.

Obsidian J, K, Lave vitreuse obsidienne H, Obsidienne B, Iceland agate—

a. Marekanite B, Obsidienne de Marikan *Brong.*

Obsidienne perlée *Brong.* 92
Obsidenne de Marıkan *Brong.* 90 *a*
Occhio de gatto *Petr.* 103 *b*
Occidental topaz K, 129
Ochre d'antimoine B, 8 iii.
Ochriger brauneisenstein *Kars.* 64 v. *g*
Ochriger rotheisenstein *Kars.* 64 v. *c*
Ochriger thoneisenstein *Kars.* 64 v. *b*
Ocre *Brong.* 21
Ocre de bismuth—19 iii.
Ocre martiale brun *Delisle*, 64 v. *g*
Ocre de nickel B, 87 iii.
Ocre d'uran B, 134 i. *a*
Ocro de hierro pardo *Herrg.* 64 v. *g*
Ocro de manganesa *Herrg.* 76 i. *b*
Octohedrite J, 128 i. *a*
Oculus mundi—91 *b*
Œil de chat B, 103 *g*
Oisanite *Méth.* 128 i. *a*
Oktaedrit W, 128 i. *a*
Olive copper ore K, 38 x.
Olivin W, 93 *b*
Olivin ore J, 38 x.
Olivina *Nap.* 93 *b*
Olivinerz W, 38 x.
Ollaire *Méth.* 124 *c*
Olyntholite *Fischer*, 55 *d*
Ommailouros *Méth* 103 *g*
Oolite B, 25 *c*

91. OPAL. Tables, xx.

a. Precious. Precious opal J, Opal K, Quarz résinite opalin H, Opale noble B, Opalo *Herrg.* Edler opal W.

b. Hydrophanous. Quarz résinite hydrophane H, Halb opal *Kars.* Hydrophane K, Silex hydrophane *Brong.* Oculus mundi —Lapis mutabilis—

c. Common. Common opal J, Semi opal K, Quarz résinite commun H, Opale commune B, Gemeiner opal W.

i. Girasol *Delisle*, Opale bleuâtre *Méth.*

d. **BROWN.** Quarz résinite subluisant H, Ménelit W, Leber opal *Kars.* Pestene de menil montant *Petr.*

e. **BLUE.** Quarz resenite bleu grisâtre *Lucas*, Blau quarz of the Germans. See Siderite 48 *e*

f. **STALACTITICAL.** Quarz agathe concretionné thermogène H, Hydrolite *Mackenzie*, Gemeiner kieselsinter *Kars.* Guhr siliceux *Klap.* Geyerite *Méth.* Kalzedonartiger and Opalartiger kieselsinter *Haus.*

i. Quarz hyalin concretionné H, Hyalite W, Fiorite *Thoms.* Perlartiger kieselsinter *Kars.* Calcedoine volcanique *Nonnull*, Müllers glass—

Opal jasper J, 61 *b*
Opale bleuâtre *Méth.* 91 *c* i.
Opale commune B, 91 *c*
Opale noble B, 91 *a*
Opalartiger kieselsinter *Haus.* 91 *f*
Opalescent felspar—48 *c*
Opalo *Herrg.* 91 *a*
Or H, B, 56
Or argental *Lucas*, 56 *a*
Or blanc *Delisle*, 98
Or blanc dendritique *Deborn*, 126 i.
Or feuilleté *Méth.* 126 iii.
Or graphique *Méth.* 126 ii.
Oriental chrysolite—33
Oriental garnet—55 *a* i.
Oriental ruby, saphire, and topaz—39 *a*
Orniblenda basaltica—4 *a*
Orobites—25 *c* i.
Orpiment K, 12 iii.
Orthose H, 48 *a*
Osmium *Tennant*, 98
Oviform limestone K, 25 *c*
Oxide of antimony—8 iii.
Oxide of arsenic—12 ii.
Oxide of bismuth—19 iii.—*Deborn*, 134 i.
Oxide of cobalt—37 ii.
Oxide de cobalt rouge *Deborn*, 37 iii.
Oxide of copper—38 v.
Oxide of iron—64 v.
Oxide of lead—70 iii.
Oxide of manganese—76 i.
Oxide de mercure sul. rouge *Deborn*, 80 iii.
Oxide of nickel—87 iii.
Oxide of tin—127 i.
Oxide of titanium—128 i.
Oxide of uranium—134 i.
Oxide of zinc—140 i.
Oxide de zinc silicifère *Berth.* 140 i.

PAGODITE *Brong.* 117 *b*
Paläiopètre *Saus.* 48 *f*
Palladium *Wollaston*, 98
Paranthine H, 137 *b*
Paulite W, 60
Pea ore J, 64 v. *l*
Pea stone J, 25 *c* i.
Peach *Kidd*, 31
Parret coal of Scotland—36 *a* ii.

92. PEARLSTONE. TABLES, XXIV.

Pearlstone J, Perlaire, formerly Obsidienne perlée H, Perlstein W,

a. Perlstein pumiciforme *Tondi*, Némate H.

Pearlspar—25 *n*
Pecherz W, 134 ii.
Pecherz ferrugineux *Méth.* 64 vii. *c*
Pechblend *Deborn*, 134 ii.
Pechkohle W, 36 *a* i.
Pechgranat *Kars.* 55 *c*
Pechstein W, 97
Pechuran *Haus.* 134 ii.
Pedernal *Herrg.* 50 *a*
Pentaklasit *Haus.* 104
Perfect corundum—39 *a*

93. PERIDOT. TABLES, LXIX.

a. **CRISTALLISED.** Péridot H, Chrysolite J, Krysolith W, Crisolito nobile *Nap.*

b. **GRANULAR.** Péridot granuliforme H, Olivin J, W, Crisolito commune, o Olivina *Nap.*

Péridot alteré *Brard*, 73
Perlartiger kieselsinter *Kars.* 91 *f* i.
Perlaire H, 92
Perlmutter opal *Kars.* 24 *b*
Perlstein W, 92
Perlstein pumiciforme *Tondi*, 92 *a*
Pestene de menil montant *Petr.* 91*d*
Pétalite *De Drée*, 71
Petalite *Andrada*, 48 *a*
Petrilite K, 48 *a* i.
Petrol K, 20 *a*
Pétrole compacte *Deborn*, 36 *a*
Petroselse commune *Petr.* 48 *f*
Petrosilex—50 *a* i.
Petrosilex *Mongez*, 48 *f*
Petrosilex *Deborn*, 24 *g*
Petrosilex résinite H, 97
Petunzé—48 *a* ii.
Pfeiffenthon W, 101 *a*
Pharmacolite *Kars.* 11
Pharmacochalzite *Leonhard*, 38 x. *a*
Phonolite H, 35
Phosphate of copper J, 38 ix.

94. PHOSPHATE OF LIME. VIII.

a. CRISTALLISED. Appatite J, Phosphorite K, Chaux phos. cristallisée H, Appatite commune B, Apatit W, Moroxite *Kars.* Augustit *Reuss.*

b. GREEN *var.* Asparagus stone J, Chaux phos. chrysolite *Brong.* Apatito *Herrg.* Beril de Saxe—Amethyste basaltine *Sage*, Crisolito *Nap.*

c. EARTHY. Ch. phos. terreuse H, Phosphorit W, Erdiger phosphorit *Kars.* Terre de Marmarosch—

Phosphate of iron—64 vii.
Phosphate of lead—70 v.
Phosphate of manganese—76 iv.
Phosphor kupfererz W, 38 ix.
Phosphormangan—76 iv.
Phosphorated lead ore K, 70 v.
Phosphorblei *gemeines Kars.* 70 v.
Phosphorit *erdiger Kars.* 94 *c*
Phosphorite K, 94 *a*
Phtanite H, 103 *i*

95. PICOLITE. TABLES, CI.

A name given by Charpentier to a mineral from the Pyrenees, resembling Gadolinite, not yet analysed.

Picrite *Brong.* 25 *l*
Pictite—128 ii.
Piedra de acero *Herrg.* 64 vi.
Piedra de escrivir *Herrg.* 99
Piedra malada *Herrg.* 79
Pierre d'Amazon *Deborn*, 48 *d*
Pierre des Amazons—48 *g* i.
Pierre calcaire grenue B, 25 *g*
Pierre calc. testacée B, 25 *d* i.
Pierre cruciforme B, 59
Pierre à corne B, 48 *g*
Pierre de corne infusible *Broch.* 24 *g*
Pierre de croix *Delisle*, 30
Pierre d'etain B, 127 i.
Pierre à fusil B, 50 *a*
Pierre grasse H, 137 *d*
Pierre de hache—48 *g* ii.
Pierre de Labrador B, 48 *c*
Pierre de miel B, 79
Pierre ollaire B, 124 *c*
Pierre à plâtre—120 *c*
Pierre pesante B, 139 ii.
Pierre de poix B, 97
Pierre de ponce B, 68 *b*
Pierre puante B, 25 *k* i.
Pierre de reins—48 *g* i.
Pierre à sculpture B, 117 *b*
Pierre sonnante B, 35
Pierre de thum B, 15
Pierre de Tonnêre—82
Pierre de tripes—120 *e*
Pietra avanturina *Petr.* 103 *k*
Pietra epatica *Petr.* 16 *a* iv.
Pimelite—87 iii.

96. PINITE. Tables, lxxii.

Micarelle K, Pinite H, Pinit W, Fuscite *Schumacher*.

Piomo—70
Pipe clay J, 101 *a*
Pirita de azufre *Herrg.* 64 iv.
Pirita hepatita *Herrg.* 64 iv. *a*
Pirita venenosa *Herrg.* 12 iv.
Pirite gialla *Petr.* 38 iii.
Pisolithe B, 25 *c* 1
Pissasphalte *Daub.* 20 *b*
Pissite *Méth.* 97
Pistazite J, W, 46 *a*
Pitch coal J, 36 *a* i,
Pitch ore—134 ii.

97. PITCHSTONE. Tables, xxiii.

Pitchstone J, K, Feldspath résinite H, Pierre de poix B, Rétinite *Brong.* Pissite *Méth.* Decodalite *Rose*, Pechstein W, Pyraphrolith *Haus.*

Pitchy iron ore J, 64 vii. *c*—76 iv.
Pittizit *Haus.* 64 vii. *c*
Plasma J, B, 103 *d*
Plasma de zaffiro *Nap.* 103 *c*
Plaster of Paris—120 *c*
Plata—108
Plata aerata *Herrg.* 108 v.
Plata cornea *Herrg.* 108 vi.
Plata nativa *Herrg.* 108 i.
Plata nat. antimonial *Herrg.* 108 ii.
Plata nat. arsenical *Herrg.* 108 ii. *a*

98. PLATINA. Tables, cxviii.

Platina J, K, Platino *Petr.* Or blanc *Delisle*, Platine natif ferrifère H, Gediegen platin W.

The crude ore of Platina, as imported from South America, is a compound of a variety of metals; besides Platina, and the new metals Osmium, Iridium, Rhodium, and Palladium, it is usually combined with Gold Mercury and Iron. According to Proust, Gold to the amount of 13 per cent. is sometimes obtained from it.

Osmium and Iridium were first separated from Platina by Fourcroy and Vauquelin, and to the substance thus obtained, they gave the name of Ptène. Tennant subsequently discovered that this supposed new metal was a compound of two, to which he gave the above names. Rhodium and Palladium were still more recently discovered by Dr Wollaston.

None of these four new metals have yet obtained a place in any system; but are particularly noticed in Bournon's catalogue. He mentions that he is possessed of Native Palladium, as well as separate cristals, composed of Iridium and Osmium.

Pléonaste H, 112 *a*
Plomb—70
Plomb arseniaté—70 v. *b*
Plomb arsenié—70 vi.
Plomb blanc B, 70 iv.
Plomb bleu B, 70 v. *a*
Plomb carbonaté H, 70 iv.
Plomb carb. noire H, 70 iv. *a*
Plomb chromaté H, 70 vii.
Plomb chromé *Bournon*, H, 70 vii. *a*
Plomb jaune B, 70 viii.
Plomb molybdaté H, 70 viii.
Plomb muriaté B, 70 x.
Plomb natif volcanique H, 70 i.
Plomb oxydé H, 70 iii.
Plomb ox. rouge *Lucas*, 70 iii. *a*
Plomb phosphaté H, 70 v.
Plomb phos. arsenifère H, 70 v. *b*
Plomb rouge B, 70 vii.
Plomb spatique rouge *Pallas*, 70 vii.
Plomb sulfaté H, 70 ix.

Plomb sulfuré H, 70 ii.
Plomb sul. antimonifère H, 70 ii. *c*
Plomb sul. ant. et argentifère H, 70 ii. *d*
Plomb sul. compacte H, 70 ii. *a*
Plomb sul. épigène—70 v. *a*
Plomb sul. spéculaire H, 70 ii. *b*
Plomb terreux B, 70 iii.
Plomb vert B, 70 v.
Plombagine *Delisle*, 99
Plombagine charbonneuse *Deborn*, 7 *a*

99. PLUMBAGO. TABLES, CXVII.

Graphit J, B, W, Graphite, formerly Fer carburé, H, Piedra de escrivir *Herrg.* Carbone oxydulé ferruginé *Tondi*, Carbon, combined with 1-10th iron, K, Black wad *vulg.* Plombagine *Delisle.*

Plomo amarillo *Herrg.* 70 viii.
Plomo de agua *Herrg.* 84
Plomo blanco *Herrg.* 70 iv.
Plomo negro *Herrg.* 70 iv. *a*
Plomo roxo espatico *Herrg.* 70 vii.
Plumbum—70
Plumose antimony—8 ii. *a*
Poix minérale *Delisle*, 20 *b*
Poix min. élastique B, 20 *c*
Poix min. scoriacée B, 20 *d*
Polierschiefer W, 100
Polierschiefer B, 1

100. POLISHING SLATE. CII.

Polishing slate J, Polierschiefer W, Tripoli schisteux *Tondi*, Thermantide Tripoléenne H.

Ponderous spar—16 *a*
Porcellaine clay J, 48 *h*
Porcellaine jasper J, 61 *c*
Porcellanite H, 61 *c*
Porzellan jaspis W, 61 *c*
Porzellanerde—48 *h*
Potasse nitratée H, 89
Potstone J, K, 124 *c*

101. POTTERS CLAY. LXXXVI.

Potters clay J, K, Argile glaise H, Argile à potier B, Argile plastique *Brong.* Argile commune *Deborn*, Töpferthon W.

a. Pipe clay J, Argile à pipe H, Pfeiffenthon W.

b. Indurated clay K, Argillolite *Brong.* Verhärteter thon W.

d. Argile legere *Brong.* Talc pulverulent silicifère—Farin fossile *Fabroni*—Farine volcanique *Méth.* Bergmehl *Kars.*—Sp. gr. sometimes so low as ·262, of this Fabroni constructed bricks which floated in water.

Prase *Delisle*, 24 *f*
Prase J, B, 103 *d*
Prase cristallisée *Hacquet*, 102
Prasem K, 103 *d*
Prasio *Petr.* 24 *f*
Prasium W, 103 *d*
Precious beryll J, 45 *b*
Precious garnet J, 55 *a*
Precious opal J, 91 *a*
Precious serpentine J, 106 *a*

102. PREHNITE. TABLES, LXV.

Prehnite J, K, H, B, W, Bostrichites of Walker *Brong.*

Lamellated var. Koupholite B, Prehnite koupholite *Brong.* Foliated prehnite J.

The Fan shaped var. of Dauphiné, Schorl en gerbes *Schreiber*, Prehnite conchoïde H.

Emeraude du Cap *Rochon*, Chrysolite du Cap *Sage*, Prase cristallisée *Hacquet*, Halb zeolith *Estner*, were the names given to this fossil when first imported from the Cape by Captain Prehn.

Prehnite chonchoïde H.
Prehnite koupholite *Brong.* 102

Primitive limestone—25 *g*
Prismatic heavy spar J, 16 *a* ii.
Prismatischer zeolith *Kars.* 81
Prussiate de fer natif *Deborn*, 64 vii. *a*
Pseudo aventurine quartzeuse *Deborn*, 103 *k*
Pseudo népheline ou Pseudo sommite *Bellevue*, 110 *a*
Pseudo quartz—103 *o*
Ptène—98
Pumice J, K, 68 *b*
Punamu néphrite *Reuss.* 48 *g* ii.
Pure clay J, 2
Purette—128 i. *c*
Purple copper ore K, 38 iii. *a*
Purple quartz—103 *b*
Pycnite H, 129 *ap.* i.
Pyraphrolith *Haus.* 97
Pyrenaït W, 55 *c*
Pyrite d'argent *Bomare*, 12 iv.
Pyrite arsenicale B, 12 iv.
Pyrite arsenicale argentifère H, 12iv.
Pyrite brune martiale *Bom.* 64 iv. *a*
Pyrite capillaire B, 87 i.
Pyrite cuivreuse B, 38 iii.
Pyrite hépatique B, 64 iv. *a*
Pyrite sulfurée épigène H, 64 iv. *a*
Pyrodmalith *Haus.* 64 x.
Pyrope J, W, 55 *a* i.
Pyrophysalite *His.* 129 *ap.* ii.
Pyromorphit *Haus.* 70 v.
Pyroxène H, 14 *a*
Pyroxène coccolithe *Brong.* 14 *b*
Pyroxène granuliforme H, 14 *b*
Pyroxène en roche *Charp.* 14 *c*

103. QUARTZ. TABLES, XVIII.

a. CRISTALLISED. Rock cristal J, Mountain cristal K, Quarz hyalin limpide H, Berg krystal W, Quarzo *Herrg.* Cristal de roche B.

b. PURPLE. Amethyst J, K, W, B, Quarz violet H, Violetto o ametista *Nap.*

c. BLUE. Quarz bleu H, Quarz hyalin saphirine *Mong.* Plasma di Zaffiro *Nap.* False saphire.

Dichroite, according to *Bournon*, is Blue quartz.

d. GREEN. Quartz agathe calcedoine vert obscure H, Prase J, Prasium K, Prasem W.

Plasma J, B, W.

e. YELLOW. Quarz jaune enfumé H, Topaz de Boheme—Smokey Topaz—Scotch Topaz—Quarz cetrino *Nap.*

f. ROSE. Milk quartz J, Rosy red quartz K, Quarz laiteux *Delisle*, Quartz rose B, Milch quarz W.

Rubase, a name given to quartz cristals, which have been made red-hot and thrown into a metallic solution, to give them a mottled red colour and a fractured appearance *Brong.*

g. RESPLENDENT. Cats eye J, Quarz agathe chatoyant H, Œil de chat B, Ommailouros ou Œil de chat, agathine chatoyante *Méth.* Quarz hyalin amianté *Cordier*, Occhio de gatto *Petr.* Katzenauge W, Schiller quarz *Kars.*

h. HEMATITIC. Quarz hyalin hematoïde H, Hyacinth de Compostello —Iron flint J, Eisenkiesel W, Sinople K, Quarz rubigineux sinople *Brong.*

i. FLINTY SLATE. Flint slate J, Siliceous schistus K, Lydianstone J, Basanite K, Lidischerstein W, Quarz argillifère shistoïde ou Phtanite H, Quarz agathe schistoïde *Lucas.* Lydienne *Méth.* Lapis lydius *Wall.* Touchstone *Kidd*, Kieselschiefer W.

k. SCALY. Quarz aventuriné H, Avanturine B, Pseudo aventurine quartzeuse *Méth.* Pietra avanturina *Petr.*

l. GRANULAR. Sandstone J, Quarz arénacé agglutiné H, Gres B.

i. Cantalite *Kars.* Quarz hyalin

Red copper ore J, 38 v.
Red hematite—64 v.
Red iron froth J, 64 v. *c*
Red lead ore K, 70 vii.
Red lead spar J, 70 vii.
Red ochre K, 64 v. *e*
Red ore of manganese K, 76 ii.
Red oxide of iron—64 v.
Red scaly iron ore J, 64 v. *c*
Red schorl—128 i.
Red silver ore J, K, 10
Red tourmaline—130 *d*
Red vitriol—122 *i*
Reddle J, 64 v.
Reinetalkerde W, 75 *b*
Reinethonerde W, 2 *a*
Resplendent felspar—84 *b*
Resplendent quartz—103 *g*
Rétinite *Brong.* 97
Reussin—122 *c*
Rhodium *Wollaston*, 98
Rhomb spar J, 25 *l*
Ribband agate J, 24 *d*
Roche serpentineuse B, 106 *b*
Rock butter J, 122 *d* ii.
Rock cork J, 13 *e*
Rock cristal J, 103 *e*
Rock salt J, 85 *b*
Rock milk J, 25 *f* i.
Rock wood J, 13 *d*
Röthel W, 68 v. *b*
Roestone J, 25 *e*
Rogenstein W, 25 *e*
Rose quartz—103 *f*
Rosy red quartz K, 103 *f*
Rowley rag K, 17
Rothgültigerz—108 iii.
Rotheisenstein *schuppiger Kars.* 64 v. *c*
Röschgewächs of Hungary—108 iii. *a*
Roubschite *Méth.* 75 *b*
Rubase—103 *f*
Rubellite K, 130 *d*
Ruby spinel—112
Ruthile B, 128 i.
Rutil W, 128 i.
Rutile J, 128 i.

104. SAHLITE. TABLES, LIII.

Sahlite W, Malacolithe *Abild.* Salaït *Haus.* var. de Pyroxène H. Alalite and Mussite *Bonvoisin*, Diopside *Brong.*—var. de Pyroxène H, Pentaklasit *Haus.*

Sagenite *Saus.* 128 i. *b*
Sal ammoniac J, K, 85 *c*
Sal de los Alpes *Herrg.* 122 *c*
Sal gemme K, 85 *b*
Sal milagrosa nativa *Herrg.* 122 *c*
Salaït *Haus.* 104
Saline marble—25 *g*
Salmiak *Kars.* 85 *b*
Salpeter *Kars.* 89
Sandarac *Deborn*, 12 iii.
Sandstone J, 103 *l*
Sandstone *cristallised*—25 *m*
Sanidin *Nose*, 48 *a* ii.
Salzkupfer K, 38 viii.
Salzsäure W, 85 *a*
Sanguine *Deborn*, 64 v. *b*
Saphir W, 39 *a*
Saphirin *Nose*, 66
Saphirine *quarz hyalin Brong.* 103 *c*

105. SAPPARE. TABLES, LXXV.

Cyanite J, B, Disthène, *c'est à dire* qui a deux forces H, Talc bleu et Beril feuilleté *Sage*, Schorl bleu *Méth.* Sorlo ceruleo *Petr.* Kyanite W.

Sapphire J, 39 *a*
Sappira—39 *a*
Sassolin *Kars.* 22 *a*
Sarcolite *Thomson*, 5 *b*
Sard, Sardoine, Sardonix—24 *c*
Satin spar—25 *c*
Saturn of the Alchimists—70
Säulenspath W, 16 *a* i.
Saussurit *Kars.* 48 *g*
Scaly quartz—103 *k*
Scaly talc—124 *d*
Scapolite *Andrada*, 137 *b*
Schaalstein W, 25 *d* i.
Schaalstone J, 25 *d* i.

Schabasit W, 29
Schaumerde W, 25 *d* ii.
Scheel W, 139
Scheelerz *Kars.* 139 ii.
Scheelin H, 139
Scheelin calcaire H, 139 ii.
Scheelin ferruginé H, 139 i.
Schieferkohle W, 36 *b*
Schieferspath W, 25 *d*
Schiefrige glanz kohle W, 7 *b*
Schiller quarz *Kars.* 103 *g*
Schillerspar—60
Schillerstein W, 41 *b*
Schillerstone J, 41 *b*
Schisolith *Haus.* 83
Schiste à aiguiser B, 138
Schiste à dessiner B, 44
Schiste happant *Tondi*, 1
Schiste marno bitumineux B, 25 *k*
Schiste à polir H, 1
Schisto chloritico—31 *a*
Schisto spato *Nap.* 25 *d*
Schlackiger anthracit *Kars.* 7 *c*
Schmaragd W, 45 *a*
Schmelzstein W, 43
Schmirgel W, 39 *c*
Schorl K, 130
Schorl blanc hexagonal du Vesuve *Ferber*, 110
Schorl blanc prismatique *Delisle*, 129 *ap.* i.
Schorl bleu—128 i. *a*
Schorl bleu *Méth.* 105
Schorl bleu de Siberie *Macq.* 64 vii.
Schorl cruciforme *Delisle*, 116
Schorl *electrischer* W, 130 *b*
Schorl *edler Kars.* 130 *b*
Schorl en gerbes *Schreiber*, 102
Schorl noir B, 130 *a*
Schorl octaèdre—128 i. *a*
Schorl pourpre de Madagascar—128 i.
Schorl rouge de Hongrie *Deb.* 128 i.
Schorl spatheux—115
Schorl transp. lenticulaire *Del.* 15
Schorl vert du Vesuve *Non.* 135
Schorl vert du Zillerthal *Méth.* 4 *b*
Schorl violet *Mongez*, 15
Schorlartiger beril W, 129 *ap.* i.
Schorlartiger topaz *Benhardi*, 129 *ap.* i.
Schorlit *Klap.* 129 *ap.* i.
Schrifterz W, 126 ii.
Schützit *Reuss.* 119 *a*
Schwarz manganerz *verhärtetes Kars.* 76 i. *b*
Schwarz uranerz *Emm.* 134 ii.
Schwefel W, 121
Schwefelkies W, 64 iv.
Schwerspath W, 16 *a*
Schwerstein W, 139 ii.
Schwimmender asbest *Kars.* 13 *c*
Schwimmkiesel *Haus.* 50 *b*
Schwimmstein *Kars.* 50 *b*
Scotch topaz—103 *e*
Sel admirable *Glauber*, 122 *c*
Sel amer natif—122 *e*
Sel ammoniac natif B, 85 *c*
Sel capillaire B, 122 *e* i.
Sel sedatif *Homberg*, 22 *a*
Sel secret de Glauber—122 *b*
Sel de cuisine B, 85 ii.
Selce *Petr.* 50 *a*
Selce d'Egitto *Nap.* 50 *c*
Selenite J, K, 120
Séméline—128 ii.
Semi indurated steatites K, 124 *d*
Semi opal—91 *c*

106. SERPENTINE. Tab. lxxxi.

a. Precious. Precious serpentine J, Serpentine noble B, Edler serpentin W, Verde di Prato, Verde di Suza, &c.
b. Common. Common serpentin J, Roche serpentineuse B, Serpentin W.

Serpentin ollaire *Brong.* 124 *e*
Siberite J, 130 *d*
Sidérite *Moll*, 48 *e*—91 *c*
Sidero calcite K, 25 *n*

107. SIDEROCLEPTE. Tab. ciii.

A mineral found at Limbourg in the Porphyritic basalt by Saussure.

Silber *arsenic Kars.* 108 ii. *a*
Silber *gediegen* W, 108 i.
Silberschwarze of the Germans—108 iii. *b*
Silex agathe *Brong.* 24 *a*
Silex cacholong *Brong.* 24 *b*
Silex calcedoine *Brong.* 24 *a*
Silex cornaline *Brong.* 24 *c*
Silex corné *Brong.* 24 *g*—48 *g*
Silex hydrophane *Brong.* 91 *b*
Silex meulière cellulaire *Brong.* 103 *n* i.
Silex silicicalce *Brong.* 25 *m* i.
Silice fluatée alumineuse H, 129
Siliceo calcareous titanium—128 ii.
Siliceous schistus K, 103 i.

108. SILVER. TABLES, CXX.

ARGENT *Fr.* ARGENTUM *Lat.* SILBER *Ger.* PLATA *Span.*

i. NATIVE. Native silver J, K, Argent natif H, Argent vierge *Delisle*, Plata nativa *Herrg.* Gediegen silber W.

a. Goldish native silver J, Argent natif aurifère H.

ii. ANTIMONIAL. Antimonial silver J, Antimoniated native silver K, Argent antimonial H, B, Spiesglas silber W, Mine d'argent antimoniale *Daub.* Plata nat. antimonial *Herrg.*

a. Argent ant. ferro arsenifère H, Arsenical silver ore J, Arsenicated native silver K, Argent arsenical B, Arsenik silber W, Silber arsenik *Kars.* Plata nat. arsenical *Herrg.*

iii. SULPHURATED ANTIMONIAL. Red Silver ore J, K, Argent antimonié sulfuré H, Argent rouge B, Roth gültigerz W, Mina de Plata roxa *Herrg.*

a. Brittle silver glance J, Argent antimonié sulfuré noir H, Argent noir *Méth.* Argent vitreux aigre B, Sprödglasserz W, Sprödglanzerz *Kars.* Röschgewächs of Hungary—Mina de Plata negra *Herrg.*

b. Sooty silver ore J, Silver black K, Argent noir B, Silberschwarze of the Germans.

iv. SULPHURATED. Silver glance J, Sulphurated silver ore K, Argent sulfuré H, Glasserz W, Glanzerz *Kars.* Argent vitreux B, Mina de Plata vidriosa *Herrg.* Vitreous silver—

v. CARBONATE. Calciforme silver ore K, Argent carbonaté H, Luftsaures silber *Wid.* Plata aerata *Herrg.*

vi. MURIATE. Horn ore J, Corneous silver ore K, Argent muriaté H, Argent corné B, Plata cornea *Herrg.* Hornerz W.

a. Earthy. Argent mur. terreux H, Buttermilcherz W.

Silver black K, 108 iii. *b*
Silver glance J, 108 iv.
Silverish arsenical pyrites J, 12 iv.
Sinople K, 103 *h*
Skorza—46 *b*
Slaggy mineral pitch J, 20 *d*
Slate coal J, 36 *b*
Slate spar J, 25 *d*
Slaty chlorite J, 31
Slaty glance coal J, 7 *b*
Slickensides—70 ii. *b*
Smaragd *glatter Kars.* 45
Smaragd *gestriefter Kars.* 45 *b*
Smaragdit *Kars.* 41 *a*
Smaragdus *Wall.* 45
Smeraldo *Nap.* 45 *a*
Smeriglio *Petr.* 39 *c*
Smokey topaz—103 *e*
Soap rock—117
Sodait *Ekeberg*, 137 *d*

109. SODALITE. TABLES, XLIII.

Sodalite *Thomson.* A mineral found by Mr Giesecké in Greenland, imbedded between Gneiss and Mica slate.

110. SOMMITE. TABLES, LXVII.

Sommite J, Népheline H, B, W, Schorl blanc hexagonal du Vesuve *Ferber*.

a. Pseudo sommite or Pseudo nephéline de Bellevue, is according to De la Métherie a var. of Sommite.

Solid bitumen—20 *d*
Solpho *Petr.* 121
Sooty silver ore K, 108 iii. *b*
Sorlo ceruleo *Petr.* 105
Sorlo nero *Nap.* 130 *a*
Soude blanche d'Egypte *Delisle*, 26 *b*
Soude boratée H, 22 *b*
Soude carbonatée H, 26 *b*
Soude muriatée H, 85 *b*
Soude muriatée gypsifère *Brong.* 85 *b*
Soude sulfatée H, 122 *c*
Soufre H, B, 121
Sparry iron ore K, 64 vi.
Sparry iron stone J, 64 vi.
Spath adamantin B, 39 *b*
Spath de Boulogne B, 16 *a* iii.
Spath brunissant B, 25 *n*
Spath calcaire B, 25 *a*
Spath chatoyant B, 41 *b*
Spath composé *Woulfe*, 25 *l*
Spath cubique—120 *c*
Spath eisenstein W, 64 vi.
Spath étincillant *Daub.* 48 *c*
Spath fluor W, 51 *a*
Spath fusible *Bucquet*, 16 *a*
Spath fusible *d'Arcet*, 48 *a*
Spath fusible *Delisle*, 51 *a*

111. SPATH DE GLACE. TAB. CIV.

Spath de Glace *De Drée*, Eisspath *Werner*. A substance from Vesuvius, mixed with Sommit, possibly Karsten's Glassiger feldspath in thin Laminæ.

Spath pesant B, 16 *a*
Spath pesant en barres B, 16 *a* ii.
Spath pesant vert *Sage*, 134 i.
Spath schisteux B, 25 *d*
Spath séléniteux de Sicile *Del.* 119
Spath en tables *Brong.* 123
Spath de zinc *Delisle*, 140 i.
Späthiger galmei *Kars.* 140 i.
Spato adamantino *Nap.* 39 *b*
Spato sedativo *Nap.* 75 *c*
Speckstein W, 117
Specular iron ore K, 64 iii.
Sphen *gemeiner Kars.* 128 ii.
Sphène H, 128 ii. *a*
Spiesglanz blei *Kars.* 70 ii. *c*
Spiesglas *gediegen* W, 8 i.
Spiesglas okker W, 8 iii.
Spiesglas silber W, 108 ii.
Spiesglaserz *grau* W, 8 ii.
Spiesglaserz *roth* W, 8 iv.
Spiesglaserz *weiss* W, 8 iii.
Spieskobolt *grauer* W, 37 i. *a*
Spieskobolt *weisser* W, 37 i.

112. SPINELL. TABLES, XXXIV.

Spinelle J, H, B, Spinel W, Balas ruby, from Balachan the Persian name of Pegu *Kidd*—Ruby spinel—Malabar name Bacham.

a. Spinelle pléonaste *Brong.* Pléonaste *c'est à dire* qui surabonde H, Spinelle noir *Lucas*, Ceilanite *Reuss.* Zeylonite W, Ceylonite J.

Humite, is a substance mentioned by Bournon, which occurs among the ejected rocks of Monte Somma, and presents a cristallisation apparently belonging to the Octohedron; it is of a cinnamon colour, very shining and transparent.

b. Spinelle zincifère H, Corindon zincifère *Hisinger*, Automolite *Ekeberg*, Gahnite *Brong.* Fahlunit *Kars.*

113. SPINELLANE. TABLES, CV.

A mineral from the borders of the Laach, so named by Nose from its affinity to Spinel.

Spinelle noir *Lucas*, 112 *a*
Spinelle pléonaste *Brong.* 112 *a*
Spinelle zincifère H, 112 *b*
Spinelline *Nose*, 128 ii. *b*

114. SPINTHERE. TABLES, CVI.

A mineral from Marromme dep. d'Isere, supposed by De la Métherie to be a variety of Sphène.

115. SPODUMENE. TABLES, XLV.

Triphane *c'est à dire* apparent dans trois sens H, Spodumene *Andrada*, Schorl spatheux et zeolite de Suède—

Spiritus lethalis *des anc.* 26 *c*
Spiritus sylvestris *Van Helmont*, 26 *c*
Sprödglasserz W, 108 iii. *a*
Sprödglanzerz *Kars.* 108 iii. *a*
Stagno *Petr.* 127
Stagno bruna o nera *Petr.* 127 i.
Stalactite globuleuse *Deborn*, 25 *c* i.
Stalactitical carbonate of lime—25 *b*
Stängenkalk *Schum.* 10 *a*
Stängenkohle W, 36 *c* ii.
Stangenspath W, 16 *a* ii.
Stangenspath *Reuss.* 129 *ap.* i.
Stannum—127
Stanzaït *Flurl*, 6
Statuary marble—25 *g*
Stauro-baryte—59
Staurolite K, 59

116. STAUROTIDE. TABLES, LIV.

Grenatite J, B, Staurotide *c'est à dire* Croisette H, Staurolith W, Granatite *Reuss.* Schorl cruciforme *Delisle*, Croisette *Daub.*

117. STEATITE. TABLES, LXXX.

a. Steatite J, B, H, Steatites K, Speckstein W, Craie d'Espagne *Delisle*, Esteatita *Herrg.* Soap rock—
b. Figure stone J, Talc glaphique *ap.* H, Pierre à sculpture B, Agalmatholite *Klap.* Stéatite pagodite *Brong.* Bildstein W, Lardite *Petr.* Koreïte *Méth.*

Steatite compatto *Nap.* 124 *d*
Stéatite lamelleuse *Daub.* 124 *b*
Stéatite pagodite *Brong.* 117 *a*
Steatite schistosa *Nap.* 124 *d*
Steel *native*—64 i. *b*
Steelstone—64 vi.
Steinsalz W, 85 *b*
Steinmark W, 74
Stephanstein—24 *e*
Stibium—8

118. STILBITE. TABLES, LXII.

Foliated zeolite J, Stilbite *c'est à dire*, corps qui a un certain eclat H, Zeolithe lamelleuse B, Strahlzeolith and Blätterzeolith W, Stilbit *Kars.*
a. Stilbite orangée *Brong.* Zeolithe rouge du Tyrol *Faujas*, Fassaït *Lenz.*

Stinkstone J, 25 *k* i.
Strahlstein W, 4 *b*
Strahlstein *asbestartiger* W, 4 *c*
Strahlstein *körniger* W, 41 *a*
Strahlzeolith W, 118
Strahliger scapolite *Kars.* 137 *c*
Stralite commune *Nap.* 4 *b*
Stralite vitriosa *Nap.* 46 *a*
Striated barytes K, 16 *a* iii.
Strontiane J, 119 *b*
Strontianite K, 119 *b*

119. STRONTITES. TABLES, XV.

a. SULPHATE. Celestine J, B, W, Strontiane sulfatée H, Spath seleniteux de Sicile *Delisle*, Schützit *Reuss*.

b. CARBONATE. Carbonate of strontites *Hope*, Strontiane J, Strontianite K, Strontiane carbonatée H.

The acicular var. from Braunsdorf in Saxony was long mistaken at Freyberg for Arragonite.

Suber montanum K, 13 *c*
Succin H, B, 3
Succin cristallisé *Deborn*, 79
Succin noir—36 *a*
Succinite *Bonvoisin*, 55 *a*
Sulfure de manganèse *Proust*, 76 iii.
Sulphate of alumine—122 *d*
Sulphate of ammonia—122 *b*
Sulphate of barytes—16 *a*
Sulphate of cobalt—122 *i*
Sulphate of copper—122 *g*
Sulphate of iron—122 *f*
Sulphate of lead—70 ix.

120. SULPHATE OF LIME. TAB. X.

a. CRISTALLISED. Selenite J, Chaux sulfatée cristallisée H, Broad foliated gypsum K, Fraueneis W, Späthiger gips *Kars*. Vitrum Muscoviticum *Kidd*, being according to Pallas used in place of glass on the banks of the Wolga—Yeso cristalisado *Herrg*.

b. FIBROUS. Chaux sulfatée fibreuse H, Fibrous gypsum J, K, Gesso fibroso *Nap*. Yeso fibroso *Herrg*. Faseriger gips W.

c. COMPACT. Compact gypsum J, Chaux sulfatée compacte H, Gypse compacte B, Alabastrite *Méth*. Dichter gyps W, Gesso compatto alabastro *Nap*.

† i. Pierre à plâtre—Chaux sulfatée calcarifère H, Plaster of Paris—

d. EARTHY. Gyps earth J, Farinaceous gypsum K, Chaux sulfatée niviforme H, Gypse terreux B, Gipserde W, Farine fossile *Brong*. Guhr gypseux *Delisle*, Vulpinite—

e. ANHYDROUS. Cube spar J, Chaux anhydro sulfatée H, Muriacit *Klap*. Chaux sulfatine *Brong*. Bardiglione *Bourn*. Spath cubique B, Karstenit *Haus*. Laminated var. Würfelspath, Lamellar var. Anhydrit W. The blue compact var. according to Haüy is the Celestine of the Germans—Botrioidal var. Pierre de Trippes—Gekrösstein of the Polish miners.

Sulphate of magnesia—122
Sulphate of soda—122 *c*
Sulphate of strontites—119 *a*
Sulphate of zinc—122 *h*

121. SULPHUR. TABLES, CXI.

Sulphur J, K, Soufre H, B, Schwefel W, Solpho *Petr*. Azufre nativo *Herrg*. Brimstone—

Sulphurated silver ore K, 108 iv.
Sulphurated antimonial silver—108 iii.
Sulphurated antimony K, 8 ii.
Sulphurated ox. of antimony—8 iv.
Sulphurated uranite K, 134 ii.
Sulphuret of antimony—8 ii.
Sulphuret of arsenic—12 iii.
Sulphuret of bismuth—19 ii.
Sulphuret of lead—70 ii.
Sulphuret of manganese—76 iii.
Sulphuret of mercury—80 iii.
Sulphuret of tin—127 ii.
Sulphuret of uranium—134 ii.
Sulphuret of zinc—140 iii.

122. SULPHURIC SALTS. TAB. V.

a. NATIVE. Acide sulfurique libre H, Acide vitriolique naturellement pûr, concret et non combiné *Baldassari*.

b. SULPHATE OF AMMONIA. Ammoniaque sulfaté H, Alkali volatil vitriolé *Berg.* Sel secret de Glauber *Delisle*, Mascagnin *Kars.*

c. SULPHATE OF SODA. Glauber salt J, K, Soude sulfatée H, Glauberite *Brong.* Sel admirable *Glauber*, Sal milagrosa nativa *Herrg.*Glaubersalz *Kars.*

i. Reussin, found by *Reuss.* in efflorescence on morasses in the vicinity of the Pseudo volcanoes of Hungary.

d. SULPHATE OF ALUMINE. Native alum K, Alumine sul. alkaline H, Alumine sulfatée *Brong.* Alun natif B, Argile vitriolée *Berg.* Alumbro nativo *Herrg.* Alum—

i. *Fibrous var.* Federsalz *Kars.* Alun de plume *Bomare*, Alumine sul. fibreuse H, Trichites of the ancients *Brong.*

ii. *Ferruginous Sulphate.* Rock butter J, Beurre de montagne B, Berg butter W.

e. SULPHATE OF MAGNESIA. Natural epsom salt K, Magnesie sulfatée H, Sel amer natif B, Vitriol de magnesie *Méth.* Sal de los Alpes *Herrg.* Bittersalz W, Epsomite *Méth.*

i. *Capillary.* Hair salt J, Capillary alum K, Mag. sul. ferrifère capillaire H, Sel capillaire B, Halotrichum *Scopoli.*

f. SULPHATE OF IRON. Iron vitriol J, Green vitriol—Fer sulfaté H, Couperose vert *Delisle*, Vitriolo de marte *Petr.* Naturlicher vitriol W, Eisenvitriol *Kars.*

g. SULPHATE OF COPPER. Blue vitriol—Vitriol of copper K, Cuivre sulfaté H, Vitriol natif B. Vitriol de Chypre—Copparoza turchina *Petr.* Kupfer vitriol W, Calchante, des anciens minéralogistes *Brong.*

h. SULPHATE OF ZINC. White vitriol—Zinc sulfaté H, Zinc vitriol *Kars.* Vitriolo di Goslar *Petr.*

i. SULPHATE OF COBALT. Red vitriol—Cobalt sulfaté *Brong.* Kobolt vitriol W.

Sumpferz W, 64 vii. *b*
Suturbrand—36 *c* i.
Swamp ore J, 64 vii. *b*
Swinstone K, 25 *k* i.
Sylvan W, 126
Sylvan blanc B, 126 iv.
Sylvan graphique B, 126
Sylvanerz *weiss*—126 iv.
Sylvanite K, 126 i.
Syrian garnet—55 *a*

123. TABULAR SPAR. TAB. CVII.

Tafelspath *Stütz*, Spath en tables *Brong.*

Lucas considers the Tafelspath of Stütz and the Schaalstein of Werner as synonymous.

Takourave—48 *g* ii.

124. TALC. TABLES, LXXVIII.

a. INDURATED. Indurated talc J, Verhärteter talk W, Talc endurci B, Craie de Briançon—French chalk—

b. LAMINATED. Talc laminaire—Gemeiner talk W, Venetian talc K, Talc commun B, Steatite lamelleuse *Daub.* Talco compatto *Nap.*

c. MASSIVE. Potstone J, K. Talc ollaire H, Pierre ollaire B, Ollaire *Méth.* Serpentine ollaire *Brong.* Topfstein W.

d. SCALY. Talc ecailleux H, Steatite compatto e Steatite schistosa *Nap.* Semi indurated steatites K.

e. EARTHY. Talcite K, Earthy talc J, Talc granuleux H, Nacrite *Brong.* Talkerde *Lenz.* Talco terroso *Nap.* Chlorite blanche—Erdiger talk W.

Talc *Daub.* 83
Talc bleu *Sage*, 105
Talc chlorite H, 31
Talc chlorite zographique H, 57
Talc glaphique *ap.* H, 117 *b*
Talc granuleux H, 124 *c*
Talc laminaire—124 *b*
Talc pulverulent silicifère—101 *d*
Talc schisteux gris verdâtre *Deborn*, 31
Talcite K, 124 *c*
Talco compatto *Nap.* 124 *b*
Talco terroso *Nap.* 124 *e*
Talk *erdiger* W, 124 *e*
Talk *gemeiner* W, 124 *b*
Talk *verhärteter* W, 124 *a*
Talkerde *Lenz.* 124 *e*
Talkspath *Estner* 25 *l*

125. TANTALUM. Tab. cxxxviii.

Tantale *Fr.* Tantalio *Span.* Columbium *Hatchet.*

Tantal oxydé H, Columbite J, Columbeisen *Reuss.* Eisenkolumb *Kars.*

a. Tantal oxydé yttrifère H, Yttro tantal *Kars.*

This mineral was found cristallised in acute rectangular prisms imbedded in Quartz in Greenland, by M. Giesecké.

Télésie H, 39 *a*
Tellur *gediegen Reuss.* 126 i.
Tellure natif auro-argentifère graphique H, 126 ii.
Tellure natif auro-ferrifère H, 126 i.
Tellure natif auro plombifère laminaire H, 126 iii.
Tellureisen *Kars.* 64 i.

126. TELLURIUM. Tab. cxxxvii.

Tellure *Fr.* Sylvan *Ger.* Telurio *Span.*

i. Native Sylvan J, Tellure natif auro-ferrifère H, Sylvanite K, Gediegen tellur *Reuss.* Aurum problematicum *Müller*, Gediegen sylvan W, Or blanc dendritique *Deborn.*

ii. Graphic ore J, Tellure natif auro-argentifère graphique H, Sylvan graphique B, Schrifterz W, Or graphique ou Aurum graphicum *Méth.*

iii. Nagyker ore and Black sylvan ore J, Tellure nat. auro-plombifère laminaire H, Nagiagerz W, Blättererz *Kars.* Or feuilleté de Nagyag *Méth.* Gold of Nagyag—

iv. Yellow sylvan ore J, Sylvan blanc B, Gelberz *Kars.* Weiss sylvanerz W.

Terre bitumineuse feuilletée *Bomare*, 36 *b* i.
Terre de Cologne—36 *c* iv.
Terre à foulon B, 53
Terre de Marmarosch—94 *c*
Terre de Verona—57
Terre verte B, 57
Terre verte *Méth.* 31 *c*
Thallit *Kars.* 46 *a*
Thermantide porcellanite H, 61 *c*
Thermantide tripoléenne H, 100
Thon *verhärteter* W, 101 *b*
Thoneisenstein *körniger* W, 64 v. *m*
Thoneisenstein *kuglicher Kars.* 64 v. *l*
Thoneisensten *stängliger* W, 64 v. *d*
Thoneisenstein *ochriger Kars.* 64 v. *b*
Thumerstone J, K, 15
Thunderstone—82
Tile ore J, 38 v. *b*

127. TIN. Tables, cxxvi.

Etain *Fr.* Zinn *Ger.* Stannum *Lat.* Stagno *Ital.* Estaño *Span.* Jupiter *Alchim.*

i. Oxide. *Cristallised.* Common tin stone J, Tin stone K, Etain oxydé H, Pierre d'etain B, Etain vitreux cristallisé *Deborn*, Etain ox. au maximum *Méth.* Stagno bruna o nera *Petr.* Estaño vidrioso *Herrg.* Zinnstein W, Cristallised ore Zinn graupen.—Granular ore Zinn zwitter, of the Germans.—

a. Radiated. Cornish tin ore J, Wood tin K, Etain oxydé concretionné H, Etain stalactite *Delisle*, Etain limoneux *Deb.* Holz zinn *Wid.* Kornisches zinnerz W.

ii. Sulphuret. Tin pyrites J, K, Etain sulfuré H, Etain pyriteux B, Zinnkies W.

Tin pyrites J, 127 ii.
Tin stone *common* J, K, 127 i.
Tinkal *Kars.* 22 *b*
Titan—128
Titane anatase H, 128 *a*
Titane chromaté *Ekeberg*, 128 i. *d*
Titane menakanite *Brong.* 128 i. *c*
Titane oxydé H, 128 i.
Titane oxydé chromifère H, 128 i. *d*
Titane oxydé ferrifère H, 128 i. *c*
Titane siliceo calcaire H, 128 ii.
Titaneisen *Kars.* 128 i. *c*
Titanite K, 128 ii.
Titanitic ore K, 128 ii.

128. TITANIUM. Tables, cxxxv.

Menachine *Gregor*, Titane *Fr.* Titanio *Span.*

i. Oxide. Prismatic rutile J, Titanite K, Titane oxydé H, Ruthile B, Schorl pourpre de Madagascar *Delisle*, Schorl rouge de Hongrie *Deborn*, Rutil W, Nadelstein—Red schorl—

a. Octohedral. Octohedrite J, Titane anatase *c'est à dire* étendu en hauteur H, Oisanite *Méth.* Oktaedrit W, Titan anatas *Kars.* Schorl octaèdre—Schorl bleu—

b, Reticulated. Sagenite *Saus.* Crispite *Méth.*

c. Granular. Menachanite and Nigrin J, Titan ox. ferrifère H, Menacan and Nigrin W, Titaneisen—Iserin et Nigrin *Kars.* Titane menakanite *Brong.* Purette—Massive var. from Aschaffenburg, Gallizinite—

d. Titane oxydé chromifère H, Titane chromaté *Ekeberg.*

ii. Siliceo-Calcareous. Titane siliceo-calcaire H, Calcareo siliceous Titanitic ore K, Gemeiner sphèn *Kars.* Braun and gelb menacanerz W, Brown ore *Thoms.* Pictite—Séméline—

a. Var. Caniculé, formerly Sphène *c'est à dire* ayant la forme d'un coin H, Rayonnante en goutiers—

b. Spinelline *Nose*—according to *Lucas*, belongs to the Siliceo-calcareous titanium.

129. TOPAZ. Tables, xxxv.

Topaz J, B, W, Occidental topaz K, Silice fluatée alumineuse, topaze H, Topazio *Nap.* Topacio *Herrg.* Yellow topaz. Brézilienne *Saus.*—the foliated Beril of Seifen, Ehrénfriedersdorf is a var. of topaz. Topaze laminaire H, Muschliger feldspath *Link.* Nuovas minas of Brasil.

i. *ap.* Topaz cylindroïde H, Beryl schorliforme B, Schorlartiger beril W, Stangenspath *Reuss.* Pycnite *c'est à dire* dense compacte H, Schorl blanc prismatique *Delisle*, Leucolithe d'Altemberg *Méth.* Schorlite *Klap.* Schorlartiger topaz *Benhardi.*

ii. *ap.* Topaze prismatoïde H, Pyrophysalite—*Hisinger* considers this mineral as a distinct species.—The cristals of topaz with white opake terminations are called by the Tartars Horses teeth *Patrin.*

Topaz is according to its colour, named Ruby or Saphire of Brasil, Hyacinth of Portugal, Chrysolite of Saxony, Rubicelle, Aigue marine, &c.

Topacio *Herrg.* 129
Topaze de Boheme—103 *c*
Topaze cylandroïde H, 129 *ap.* i.
Topaze laminaire H, 129
Topaze prismatoïde H, 129 *ap.* ii.
Topazio *Nap.* 129
Topazolite *Bonvoisin*, 55
Topfstein W, 124 *c*
Töpferthon W, 101
Touchstone *Kidd*, 103 *i*
Tourbe papyracée *Tondi*, 36 *b* i.

130. TOURMALINE. Tables, xlvii.

a. *Common.* Common schorl J, Schorl K, Tourmaline noire H, Schorl noir B, Sorlo nero *Nap.* Gemeiner schorl W, Basalt transparent *Delisle*, Turmalin *Wall.* Aphrizit *Andrada.*

b. Green tourmaline J, K, Tourmaline verte H, Electrischer schorl W, Edler schorl *Kars.* Electric schorl —Brasil Emerald of the lapidaries.

c. *Blue.* Tourmaline indigo H, Indicolithe *Andrada*, Indicolit *Kars.*

d. *Red.* Siberite J, Rubellite K, Tourmaline apyre H, Tourmaline rubéllite *Brong.* Daourite *Méth.* Apyrit *Haus.*

e. Tourmaline apyre cylindroïde H, var. du Stangenspath *Reuss.* var. du Rubellit *Kars.* from Rosena.

Tourmaline apyre H, 130 *d*
Tourmaline indigo H, 130 *c*
Tourmaline noire H, 130 *a*
Tourmaline rubèllite *Brong.* 130 *d*
Tourmaline verte H, 130 *b*
Trap K, 17
Trap tuff W, 18
Traubenerz *Klap.* 70 v. *b*

131. TREMOLITE. Tables, lxxvi.

Tremolite J, Tremolith W, var. d'amphibole formerly Gramatite *c'est à dire* marquée d'un ligne. H, Höpfnerite—

a. Baikalite has been considered a var. of Tremolite, perhaps improperly.

Trichites—122 *d* i.

132. TRIKLASITE. Tables, cviii.

A name given by Willman to a substance which occurs at Fahlun, accompanied with Yellow copper ore, suspected by *Lucas* to be Pyroxène.

Triphane H, 115
Triple sulphuret *Hatchet*, 70 ii. *c*
Tripoli schisteux *Tondi*, 100
Tuff basaltique B, 18
Tungstate manganesié *Deborn*, 139 i.
Tungstate ferrugineux *Deborn*, 139 i.
Tufo oolitico *Nap.* 25 *c*
Tungstenite K, 139 ii.
Tungstene J, K, 139 ii.
Tungstène de Bastnaes *Crons.* 28 i.
Tumite *Nap.* 15
Turmalin *Wall.* 130 *a*

133. TURQUOISE. Tables, cix.

Turquoise H, B, Turkis W.

Although there are few substances more common in the cabinets of mineralogists, we can scarcely name any one, the origin of which is so little known. The Turquoise is noticed by the French authors, only in the annotations to the Carbonate of copper. The analyses given of it by Lagrange and by John, are as widely different as possible. This may arise from there being two substances totally distinct, which are both denominated Turquoise;—that of the Vieille roche as it is called, which is found in Persia, is certainly a mineral. The other is merely teeth and bones of animals, penetrated by copper. The specimen analysed by Lagrange he believed to be of the Vieille roche, though the result does not warrant that conclusion.

Tyrolite *Méth.* 48 *c*—69 *a*

Uran glimmer W, 134 ii.
Uran mica J, 134 ii.
Uran ochre J, 134 i. *a*
Urane micacé B, 134 i.
Urane noir B, 134 ii.
Urane oxydé H, 134 i.
Urane oxydulé H, 134 ii.
Urane sulfuré brun *Méth.* 134 ii.
Uranocher *Festes,* W, 134 i. *a*

134. URANIUM. TABLES, CXXXIII.

i. CRISTALLISED. Uran mica J, Micaceous uranitic ore K, Urane micacé B, Spath pesant vert *Sage*, Uranglimmer W, Cuivre corné, Oxyde de bismuth *Deborn*, Mica vert *Leske*, Chalkolite—Urane oxydé H, Oxide of uranium—

a. Earthy. Festes uranocher W, Zerreiblicher uranokker *Kars.* Ocre d'urane B, Uran ochre J.

ii. MASSIVE. Pitch ore J, Sulphurated uranite K, Urane oxydulé H, Urane noir B, Pechblend *Deborn*, Uran sulfuré brun *Méth.* Blenda picea *Herrg.* Pecherz W, Schwarz uranerz *Emm.* Pechuran *Haus.* Eisenblende—

Variegated calcedony—24 *d*
Variegated copper ore J, 38 iii. *a*
Venetian talc K, 124 *b*
Venus—38 i.
Verde de cobre *Herrg.* 38 vii. *a*
Verde de Prato—106 *a*
Verde de Suza—106 *a*
Vert de montagne *Delisle*, 38 vii. *a*

135. VESUVIAN. TABLES, XL.

Vesuvian J, Vésuvienne B, Idocrase *c'est à dire* Figure mixte H, Hyacinthe du Vésuve *Delisle*, Schorl vert du Vésuve *Nou.* Wilouïte *Sewerg.* Crisolito de vulcani *Petr.* Chorlo volcanico *Herrg.*

Vesuvian K, 72
Violetto *Nap.* 103 *b*
Virescite *Méth.* 14 *a*
Virum—42
Viscid bitumen—20 *b*
Vitreous copper ore K, 38 ii.
Vitreous silver—108 iv.
Vitriol *blue*—122 *g*
Vitriol de chypre—122 *g*
Vitriol of cobalt—122 *i*
Vitriol of copper—122 *g*
Vitriol *green*—122 *f*
Vitriol of iron J, 122 *f*
Vitriol of lead *native* K, 70 ix.
Vitriol de magnesie *Meth.* 122 *e*
Vitriol *natürlicher* W, 122 *f*
Vitriol de plomb natif B, 70 ix.
Vitriol *white*—122 *h*
Vitriolo de Goslar *Petr.* 122 *h*
Vitriolo de marte *Petr.* 122 *f*
Vitrum Muscoviticum—120 *a*
Volcanic ashes—68 *d*
Volcanic mud—68 *c*
Volcanic schorl—14 *a*
Volcanite—14 *a*
Vulpenite—120 *d*
Voraulite *Méth.* 69 *a*

Wad *Kars* 76 i. *c*
Wad des Anglais *Lucas*, 76 i. *c*
Walkererde W, 53
Wasserblei W, 84

136. WAVELLITE. TABLES, LXVI.

Wavellite *Babington*, Hydrargillite *Davy*, Hydrate d'alumine *Klap*. According to *Bournon* Diaspore is a variety of this mineral.

Weissgültigerz W, 70 ii. *d*
Weisserz W, 12 iv.
Weissbleierz—70 iv.

137. WERNERITE. TABLES, LVII.

a. CRISTALLISED. Wernerite *Andrada*, Arktizit W.
b. PRISMATIC. Paranthine H, Scapolite *Andrada*, Rapidolithe *Abild*.
c. FOLIATED. Micarelle *Abild*. Strahliger scapolith *Kars*.
d. COMPACT. Pierre grasse H, Fettstein W, Elaeolith *Klap*. Sodäit *Ekeberg*, Lythrodes—Natrolite of Sweden—

Whinstone K, 17

138. WHETSLATE. TAB. LXXXVII.

Whetslate J, Argile schisteuse novaculaire H, Schiste à aiguiser B, Novaculite K, Coticula *Wall*. Cos *Méth*.

White antimony J, 8 iii.
White cobalt ore J, 37 i.
White garnet—72
White lead ore J, K, 70 iv.
White silver ore J, 70 ii. *d*
White vitriol—122 *h*
Weisenerz W, 64 vii. *b*
Wilouïte *Sewergin*, 135
Wismuth *gediegen* W, 19 i.
Wismuthglanz W, 19 ii.
Wismuthokker W, 19 iii.
Witerite *Nap*. 16 *b*
Witherit J, B, W, 16 *b*

139. WOLFRAM. TABLES, CXXXVI.

SCHEELIN *Fr*. SCHEEL W, TUNGSTENITE K.

i. FERRUGINOUS. Wolfram J, W, K, Scheelin ferruginé H, Tungstate manganesié *Deborn*, Tungstate ferrugineux *Méth*. Brown gossan of the Cornish miners.
ii. CALCAREOUS. Tungsten J, K, Scheelin calcaire H, Pierre pesant B, Schwerstein W, Scheelerz *Kars*.

Wood tin J, K, 127 ii.
Würfel zeolith *var*. *Reuss*. 5 *a*—29
Würfelerz W, 64 viii.
Würfelstein *Westr*. 75 *c*
Würfelspath W, 120 *e*
Würflicher feldspath W, 48 *a*

Yanolite *Méth*. 15
Yellow copper ore K, 38 iii.
Yellow lead ore J, 70 viii.
Yellow molybdenated lead ore K, 70 viii.
Yellow orpiment—12 iii.
Yellow quartz—103 *c*
Yellow silvan ore J, 126 iv.
Yellow sulphuret of copper—38 iii.
Yénite *Lelievre*, 62
Yeso cristalizado *Herrg*. 120 *a*
Yeso fibroso *Herrg*. 120 *b*
Ytterbite—54
Yttro tantal *Kars*. 125 *a*

ZEICHENSCHIEFER W, 44
Zeolite noire *Geyer*, 54
Zeolithe bleue *Deborn*, 69
Zeolithe cubique B, 29
Zeolithe dur *Méth*. 5 *a*
Zeolithe efflorescente H, B, 67
Zeolithe farineuse B, 81 *a*
Zeolithe d'Hellesta *Rinman*, 9
Zeolithe jaune de Schaffhausen *Bellevue*, 86
Zeolithe lamelleuse B. 118
Zeolithe rouge d'Edelfors 81 *b*
Zeolithe rouge du Tyrol *Faujas*, 118

Zeolithe de Suède—115
Zeolithe turchina *Petr.* 69
Zeolithe à 24 facettes B, 5 *a*
Zeigelerz W, 38 v. *b*
Zillerthite *Méth.* 4 *b*
Zeylonite W, 112 *a*
Zerreiblicher uranokker *Kars.* 134 i. *a*

140. ZINC. TABLES, CXXVII.

i. OXIDE. Calamine J. B, K, Zinc oxydé H, Zinc en chaux *Berg.* Spath de zinc *Delisle*, Cadmia of Pliny *Kidd*, Oxyde de zinc silicifère *Berthier*, Giallamina *Petr.* Galmei W, Zinc glaserz *Kars.*
ii. CARBONATE. Zinc carbonaté H, Späthiger galmei *Kars.* Zinc carb. hydreux H, Zinc hydraté *Méth.* Zinc blüthe *Kars.*
iii. SULPHURET. Blende J, K, B, W, Zinc sulfuré H, Blenda *Herrg.*

Zinc blüthe *Kars.* 140 ii.
Zinc carb. hydreux H, 140 ii.
Zinc en chaux *Berg.* 140 i.
Zinc glaserz *Kars.* 140 i.
Zinc hydraté *Méth.* 140 ii.
Zinc oxydé H, 140 i.
Zinc sulfaté H, 122 *h*
Zinc sulfuré H, 140 iii.
Zinc vitriol *Kars.* 122 *h*

Zinn—127
Zinnstein W, 127 i.
Zinnkies W, 127 ii.
Zinnerz *kornisches* W, 127 i. *a*
Zinnober W, 80 iii.

141. ZIRCON. TABLES, XXXI.

Zircon J, H, Jargon B, Zircon W, Zirconite *Schum.* Giacinto et Giargonè *Nap.* Colorless var. false or mock Diamond—

a. Hyacinth J, K, B, Hyazinth W, Hyacinthe d'Expaillie—

Bournon has given the name of Craitonite to a substance which accompanies the Anatase of St Christophe, in compliment to his friend Dr Crichton of St Petersburg, with whose name he has taken the same liberty Lelievre did with that of Jena, in order to adapt it to the French orthography. Craitonite occurs in very minute acute rhomboidal cristals, which are often deeply truncated. It has not been regularly analysed, but its component parts are found to be Zircon, Silex, Iron and Manganese.

Zoisite W, 46
Zoned agate—24 *d*

SYNOPTIC TABLES

OF THE

ANALYSES OF MINERALS.

EXPLANATION

OF THE

TABLES OF ANALYSES.

In the arrangement of these Tables, it has been my wish, as far as it was possible, to place before the eye, the principle by which Mineralogical arrangement is guided; and to give as it were, along with the systematic distribution, the grounds on which it rested. For this purpose the Tables are divided into 16 columns. The first contains the *Number* by which the Analysis of any substance mentioned in the List of Synonymes may be found;—the second presents the *Systematic arrangement* of Minerals;—the third, the *Trivial Names* by which they are most commonly known;—the fourth is destined for the *Locality* of the substance analysed, which, though of very prominent importance, is often totally neglected. This omission cannot be attributed to the Analysts, but in general to the carelessness of the authors who have quoted their works, without thinking it necessary to state all the particulars; and, in many instances, I have not been able to consult the original. In the third and fourth columns are occasionally inserted notices, relative to the substance analysed, neither belonging to its trivial name nor locality. Where neither of these were given, I thought it better to make some use of the columns than to leave them altogether unemployed. The fifth column is intended to represent the *Specific Gravity*, which it is very surprising should ever be neglected by the Analyst. This, however, is often the case; and is, in some instances, supplied on the authority of HAUY, on whose accuracy I have every reliance.

The next column contains the *Name* of the Analyst, and the ten following the different chemical ingredients of the mineral. To prevent the columns from spreading beyond a convenient breadth, one only has been devoted to Acids, and another to Alkalies; the kind of either being distinguished by an initial letter. A star in a column marks that a trace of the substance under which it is placed, has been observed by the chemist; and where an initial letter is subjoined to the portions of any of the earths or metals, it is to notify that these are acidiferous compounds, of which the letter denotes the nature.

The double column is intended for the reception of such ingredients as occur so seldom as not to demand a head for their own use; and when I have not been able to dispose of the whole in these ten columns, I have had recourse to a foot-note,—but it will be seen how very seldom I have been obliged to make use of it.

It very often occurs in stating the results of analyses, that chemists have not considered it requisite to separate the proportions of different compounds. Of this we have several examples in the analyses of the Carbonate of Magnesia, which, we are generally informed, contains so much Carbonate of Lime, and so much Carbonate of Magnesia. In some instances this has been carried still farther; for in KLAPROTH's Essays, we find an analysis of the Saltpetre of Molfetta, in which four different ingredients are named, all of them compounds. These in the annexed tables are reduced by means of Dr WOLLASTON's scale, to the proportions of the usual analytic elements of which the fossil is composed; thus, in KLAPROTH's Essays we find the stone of Molfetta is stated to contain

Pure prismatic nitre	425½ gr. by the scale	= to	22·75	nit. acid.
			19·85	potash.
Muriated neutral salt	2. gr.	=	·093	m. acid.
			·107	soda.
Selenite	254½ gr.	=	15·4	sul. acid.
			10.	lime.
Limestone	304. gr.	=	17.	ditto.
			13·4	carb. acid.
Loss	14. gr.	=	1·4	
	1000		100	

In the same way some others are reduced, and the compound of Carbonate of Lime in general wherever it occurred. This operation might have been extended throughout the whole, had the scale supplied the means. I am aware it might have been done by applying the proportions as estimated by other chemists; but being afraid of misleading others, by going astray myself, I refrained from making the attempt.

The last column is devoted to the names of the authors I have consulted—whose works are as under:

Aikin.—Dictionary of Chemistry and Mineralogy—London 1807.
An. Ch.—Annales de Chimie: when followed by a number it denotes the volume.
Annals.—Annals of Philosophy.
Bournon.—Traité Complete de Chaux Carbonatée—London.
Brochant.—Traité Élémentaire de Minéralogie—Paris 1802.
Brongniart.—Traité Élémentaire de Minéralogie—Paris 1807.
Ed. Trans.—Transactions of the Royal Society of Edinburgh.
Gallizin.—Tableau Lithologique—Brunswick 1802.
Haüy.—Traité de Mineralogie—Paris 1801.
Jameson—System of Mineralogy—Edin. 1804.
Journal.—Journal des Mines; and when followed by a number it denotes the volume.
Kidd.—Outlines of Mineralogy—Oxford 1809.
Kirwan.—Elements of Mineralogy—1784.
Klaproth's Essays.—His own analyses are distinguished by a number corresponding with that of the experiment in his book.
Leonhard.—Taschenbuch 1810, 11, 12, & 13.
Lucas.—Tableau Méthodique des Espèces Minerales—Paris 1806 and 1813.
Phil. Trans.—Transactions of the Royal Society of London.

Tab. Com.—Tableau Comparatif, des Résultats de la Cristallographie et de l'Analyse Chimique—Par Haüy, Paris 1809.
Thomson.—System of Chemistry—Edin. 1807 & 1810.
Thury.—Héricart de Thury Mineralogie Synoptique—Paris 1805.

In a Table by themselves, I have given the analyses of all the Meteoric minerals I have been able to meet with.

1*st* CLASS, SALINE SUBSTANCES.

		Trivial Name	Locality	Sp.gr.	Analyst
I.	1. GEN. CARBONIC.				
	a. Native	.	.	.	.
	b. Carbonate of soda	Natron	Sukena	.	Klaproth
	Ditto	*Artificial*	.	.	Ditto
II.	2. GEN. BORACIC.				
	a. Native	Sassolin	Tuscany	.	Klaproth
	b. Borate of soda	Tinkal	Thibet	.	Ditto
	Ditto	Borax	.	.	Bergman
III.	3. GEN. NITRIC.				
	a. Nitrate of potash	Saltpetre	Molfetta	.	Klaproth
	Ditto	*Artificial*		.	Berthollet
	Ditto	.		.	Bergman
	Ditto	.	.	.	Kirwan
	b. Nitrate of lime	*Artificial*	.	1·62	Bergman
	Ditto	Ditto	.	.	Kirwan
IV.	4. GEN. MURIATIC.				
	a. Native	.	.	.	.
	b. Muriate of soda	Fossil salt	Halle	.	Bergman
		Muriacite	Bucharia	.	Klaproth
	c. Muriate of ammon.	Sal ammoniac	Vesuvius	.	Ditto
	Ditto	.	.	.	Ditto
	Ditto	*Artificial*	.	.	Lussac
V.	5. GEN. SULPHURIC.				
	a. Native	.	.	.	.
	b. Sulph. of ammonia	Mascagnin	Tuscany	.	Kirwan
	c. Sulph. of soda	Glauberite	New Castile	2·73	Brongniar
	Ditto	Glaubersalt	.	.	Bergman
	d. Sulph. of alumine	Plumose alum	Freyenwalde	.	Klaproth
	Ditto	.	Tolfa	.	Ditto
	Ditto	.	.	.	Vauquelin
	Ditto *ferruginous*	Rock butter	Irtisch	.	Klaproth
	e. Sulph. of magnesia	Epsom salt	Mt. Martre	.	Bergman
	Ditto	Hair salt	Idria	.	Klaproth
	f. Sulph. of iron	Green vitriol	.	.	Bergman
	g. Sulph. of copper	Blue vitriol	.	.	Proust
	h. Sulph. of zinc	White vitriol	Ramelsberg	1·33	Klaproth
	Ditto	.	Cornwall	.	Schaub
	Ditto	*Artificial*	.	.	Bergman
	i. Sulph. of cobalt	Red vitriol	Hanau	.	Kopp

⸸ Both anhydrous sulphates. † With water of cristallisation. ‡ Micace

1st ORDER, SOLUBLE SALTS.

Acid	Alkali	Silex	Alum.	Lime	Mang	Water	Loss	Other ingred.	Authority
.	.	.	.	.	.	.	.	.	.
38. C	37. S	.	.	.	.	22·5	.	2·5 s soda	No. 78
16. C	22. S	.	.	.	.	62.	.	.	Ditto
86. B	.	.	.	3. S	11. S	.	.	* iron	No. 80
37. B	14·5 S	.	.	.	.	47.	.	.	No. 163
36. B	17. S	.	.	.	.	47.	.	.	Thury
22·75 N	19·85 P	.	.	27.	.	.	1·4	13·4 c. acid §	No. 24
51·38 N	48·62 P	.	.	.	.	.	.	.	Thomson
43. N	49. P	.	.	.	.	18.	.	.	Tab. com.
30. N	63. P	.	.	.	.	7.	.	.	Thury
43. N	.	.	.	32.	.	25.	.	.	Thomson
57·44 N	.	.	.	32.	.	10·56	.	.	Ditto
.	.	.	.	.	.	.	.	.	.
52. M	42. S	.	.	.	.	6.	.	.	Tab. com.
6·9 M	7·9 S	53. ‡	.	14·3	.	.	.	2·3 c. acid ‖	No. 22
49·5 M	31·4 A	.	.	.	.	16·6	.	2·5 s. amm.	No. 79
50·73 M	32. A	.	.	.	.	17.	.	·27 soda	Ditto
61·65 M	38·35 A	.	.	.	.	.	.	.	homson
.	.	.	.	.	.	.	.	.	.
55·7 S	29·7 A	.	.	.	.	14.16	.	.	Kirwan
.	51. +	.	.	49. †	.	.	.	.	An. ch. 67
27. S	15 S	.	.	.	.	58.	.	.	Tab. com.
77. † S	·25 P	.	15·25	.	.	.	.	7·5 iron	No. 81
16·5 S	·4 P	19.	56·5	.	.	3.	.	.	No. 150
25. S	3·08 P	24.	43·92	.	.	4.	.	.	Ditto
31. S	·25 S	.	2·5	4·5	·25	.	49·25	6. iron	Leon. 13
33. S	.	.	.	.	.	48.	.	19. mag.	Tab. com.
67. S	.	.	.	.	.	.	.	33. ditto	No. 82
39. S	.	.	.	.	.	38.	.	23. iron	Tab. com.
33. S	.	.	.	.	.	36.	.	32. cop.	Ditto
22. S	.	.	.	.	·5	50.	.	27·5 zinc	No. 205
21. S	.	.	.	.	4.	46.	4.	25. ditto	Tab. com.
40. S	.	.	.	.	.	40.	.	20. ditto	Ditto
19·74 S	.	.	.	.	.	41·55	.	38·71 cobalt	An. ch. 70

ous sand. § With 15·4 s. acid & a trace of m. of soda. ‖ With 16. sul. acid.

1

1st Class, SALINE SUBSTANCES.

VI.

1. GENUS, LIME.	Trivial Name	Locality	Sp.gr.	Analyst	Lime
1. SPECIES, CARBONATE					
a. Cristallised	Calcareous sp.	Iceland	2·71	Phillips	55·5
	Ditto	Ditto	.	Bucholz	56·5
	Ditto	.	.	Biot	56·35
	Ditto	.	.	Vauquelin	57.
	Ditto	Iceland	.	Stromayer	56·15
	Ditto	Andreasberg	.	Ditto	55·98
	Ditto	.	.	Wollaston	56.
b. Stalactitical	Calc sinter	.	2·81	Bucholz	56.
c. Fibrous	Satin spar	Alston moor	2·70	Pepys	50·1
d. Foliated *Solid*	Schieferspar	Cornwall	2·74	Phillips	54·7
	Ditto	.	.	Bucholz	55.
	Ditto	Norberg	.	Hissinger	56·75
	Schaalstein	.	.	.	.
Pulverulent	Schaumerd	.	.	Bucholz	51·5
e. Oviform	Oolite	.	.	Kirwan	50·5
	Peastone	.	.	.	.
f. Earthy *Solid*	Chalk	.	2·31	Bucholz	56·5
	Ditto	Volhynia	.	Hacquet	47.
Pulverulent	Agaric min.	.	.	.	.
g. Granular	Statuary marb.	.	2·48	Bucholz	56·5
	Bluelime stone	Vesuvius	.	Klaproth	58.
h. Compact	Comp. marble	.	2·6	Simon	53.
	Lumachello	.	.	.	.
	Mehlbaz	Weimar	.	Bucholz	33·41
i. Argillaceous	Marl	.	.	.	.
k. Bituminous	Stinkstone	.	.	.	.
	Fetide	.	2·67	Kirwan	.
l. Magnesian *Crist.*	Bitterspath	Halle	2·48	Klaproth	29.
	Rhomb spar	Taberg	.	Ditto	41·5
	Ditto	Halle	.	Ditto	38 5
	Miemite	Miemo	.	Ditto	30.
	Pearl spar	Sweden	.	Hisinger	27·97
	Ditto	Gotha	2·88	Klaproth	33.
Prismatic	Dolomite	Mexico	.	Ditto	28·9
	Ditto	Tschislag.	2·76	Ditto	28·2
Granular	Ditto	St Gothard	.	Saussure	44·28
	Ditto	Ditto	.	Klaproth	28·5
	Ditto	Appenines	.	Ditto	36·5
	Ditto	Carin. Alpes	2·83	Ditto	29·3
	Ditto	Castellamare	.	Ditto	33.
	Ditto	Tenedos	.	Ditto	29.
Compact	Gurofians	Guros	2·76	Ditto	39·5
	D. Bitterkalk	Moravia	2.88	Bucholz	48.
	Ditto	Herjeadalen	.	Hisinger	29·8
	Grec. marble	R. of Rome	.	Tennant	30·32
	Massive	Vesuvius	.	Ditto	34·3
	Ditto	Iona	.	Ditto	31·12

C.acid	Silex	Alum	Mag.	Iron	Mang	Water	Loss	Other ingred.	Authority
44.	.	.	.	.	.	·5	.	.	Thomson
43.	.	.	.	.	.	·5	.	.	Ditto
42·92	.	.	.	.	.	.73	.	.	Tab. com.
43.	.	.	.	.	.	.	.	.	Ditto
43·7	.	.	.	*	·15	.	.	.	Annals
43·56	.	.	.	*	·36	·1	.	.	Ditto
44.	.	.	.	.	.	.	.	.	Scale
43.	.	.	.	.	.	1.	.	.	Thomson
47 6	.	.	.	.	.	*	2·3	.	Aiken
43·3	·05	.	.	·8	.	.5	·65	.	Thomson
41·7	.	.	.	.	3.	.	3.	.	Ditto
42·25	.	.	.	.	.	1.	.	.	Leonhard
.	.	.	.	.	.	.	.	.	.
39.	5·7	.	.	3·3	.	1.	.	.	Thomson
39·5	.	10.	.	.	.	.	.	.	Gallizin
.	.	.	.	.	.	.	.	.	.
43.	.	*	.	*	.	·5	.	* m. acid	Thomson
33.	7.	2.	8.	.	.	.	·5	.	Journal
.	.	.	.	.	.	.	.	.	.
43.	.	.	.	.	.	·5	.	.	Thomson
28·5	1·25	.	·5	·25	.	11.	.	·25 carbon	Journal
42·5	1·12	1.	.	·75	.	1.63	.	.	Thomson
.	.	.	.	.	.	.	.	.	.
42.	10·25	.	9 43	2·25	1·25	.	1·41	.	Journal
.	.	.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.	.
45.	.	.	.	.	.	.	.	.	Kirwan
23.	.	.	45. c	3.	*	.	.	.	No. 21
31·5	.	.	25. c	2·25	*	.	.	.	Ditto
29·5	.	2.	25·5 c	1. c	.	2.	.	.	No. 148
23.	.	.	42·5 c	3. c	.	.	.	.	No. 110
44·6	.	.	21·14 c	3·4	1·5	.	1·39	.	Annals
47·5	.	.	14·5	2·25	.	2·75	.	.	No. 111
22·6	.	.	32. c	7·5 c	2. c	5.	.	.	No. 145
39·25	.	.	19·74	.5	.	11·31	1.	.	Leon. 13
46.	.	5.86	1·4	·14	.	.	1·71	.	Klap. 146
21·5	.	.	46·5 c	·5	·25	.	·75	.	No. 146
28·5	.	.	35. c	.	.	.	.	.	Ditto
22·7	.	.	48. c	·2	.	.	.	.	Ditto
26.	.	.	40·5 c	.	.	.	·5	.	Ditto
22·	.	.	48. c	.	.	.	.	.	Ditto
38.	.	.	29·5 c	.	.	.	.	.	No. 186
28.	.	.	20·5	*	1·5	.	.	.	Journal
47·6	.	.	21·6	1·5	.	.	.	.	Leon. 12
48.	.	.	21·24	·4	.	.	.	.	Bournon
48.	.	.	18·27	·24	.	.	.	.	Ditto
48.	.	.	17·6	.	.	.	.	4. residue	Ditto

1st CLASS, SALINE SUBSTANCES.

	1 GENUS, LIME.	Trivial Name	Locality	Sp. gr.	Analyst	Lime
VI.	1. SP. *Continued.* *m.* Quartzose	Cris. sandstone	Fontainebl.	3·6	Sage	18·5
		Natrochalzite	Reichenbach	·	——	31·5
		Conite	Meisner	3.	John	14.
		Calp	Dublin	·	Kirwan	38·25
		Madreporite	Salzbourg	·	Moll	35·75
		Ditto	·	·	Klaproth	53.
		Ditto	·	·	Ec. de Min.	35·5
	n. Ferro-manganes.	Pearl spar	·	2·83	Bergman	21·5
VII.	2. SP. ARRAGONITE. *a.* Cristallised	Hard cal. spar	·	2·91	Vauquelin	58·5
		Ditto	·	·	Biot	56·33
		Ditto	·	·	Bucholz	54·5
		Ditto	·	·	Holme	55·5
		Ditto	Dax	·	Stromeyer	53·39
		Ditto	Arragon	·	Ditto	53·62
		Ditto	Auvergne	·	Ditto	55·02
	b. Coralliforme	Flos ferri	·	·	·	·
VIII.	3. SP. PHOSPHATE *a.* Cristallised	Apatite	Saxony	3·20	Klaproth	55.
		Ditto	Uton	·	Ditto	92.
	b. Green	Asparag. stone	Spain	3·09	Vauquelin	54·28
		Do. Massive	Zillerthal	3·19	Klaproth	53·75
	c. Earthy	Phosphorite	Estramadur.	2·81	Pelletier	59.
		Do. Pulverul.	Marmaros	·	Klaproth	47.
IX.	4. SP. FLUATE. *a.* Cristallised	Fluor spar	·	3·19	Scheele	57.
		Ditto	Gersdorf	·	Klaproth	67·75
		Ditto	·	·	Richter	65.
		Ditto	·	·	Thomson	67·34
	b. Compact	·	Ratofska	·	John	20.
	c. Earthy	·	Marmaros	·	Pelletier	21.
X.	5. SP. SULPHATE. *a.* Cristallised	Gypsum	·	2·31	Berthier	32·8
		Selenite	New York	·	Warden	32.
		·	·	·	Bucholz	33.
	b. Fibrous	·	·	2·30	Ditto	33.
	c. Compact	·	·	·	·	·
	d. Earthy	Vulpinite	Vulpino	2·87	Vauquelin	92.
	c. Anhydrous	Cube spar	Berne	2·96	Ditto	40.
		·	Halle	2·96	Klaproth	41·71
		·	Sulz	2·94	Ditto	42.
		Compact	Bothnia	·	Klaproth	42.
XI.	6. SP. NITRATE.	See Nit. salts				
XII.	7. SP ARSENIATE.	Pharmacolite	Furstemberg	2·64	Klaproth	25.
		Ditto	Andreasberg	·	John	27·28
XIII.	8. SP. BORATE. *a.* Cristallised	Datholite	Arendahl	2·98	Klaproth	35·5
		Ditto	Ditto	·	Vauquelin	34.
	b. Botrioidal	Botriolite	Ditto	2·88	Klaproth	39·5

+ With 1. c. acid and ·5 m. acid.

§ With 11·5

Acid	Silex	Alum	Mag.	Iron	Mang	Water	Loss	Other ingred.	Authority
14·5	.	.	.	.	.	.	.	.	Lucas
24·5	37·	4.	.	.	.	.	.	4. soda	Leonhard
49.	.	.	33·75	2·25	.	1.	.	.	Ditto 13
29·75	18·	7.	.	2.	.	.	.	3. bitumen	Kidd
27·5	12 5	10·12	.	10.85	.	.	.	.	Klap. 105
40.	4·5	.	·5 c	1.25c	.	.	.	·5 carbon.	No. 105
27·5	13·	10.	.	11.	.	.	3.	.	Lucas
16·5	.	.	.	38.	24. c	.	.	.	Thomson
41·5 c	.	.	.	.	.	.	.	.	Tab. com.
43·04 c	.	.	.	.	.	·63	.	.	Ditto
41·5 c	.	.	.	.	.	3·5	.	.	Thomson
43·7 c	.	.	.	.	.	·8	.	.	Annals
42·87	.	.	.	.	.	·98	.	2·88 stron.	Ditto
42·45	.	.	.	.	.	·30	.	2·52 ditto	.
45·29	.	.	.	.	.	·21	.	1·45 ditto	.
.	.	.	.	.	.	.	.	.	.
45. P	.	.	.	.	.	.	.	.	No. 144
.	1.	.	.	.	.	.	.	6. carb. lime	No. 202
45·72 P	.	.	.	.	.	.	.	.	Journal
46·25 P	.	.	.	.	.	.	.	.	No. 144
34. P	2.	.	.	1.	.	.	.	2·5 F acid §	No. 166
32·25 P	·5	.	.	·75	.	1.	.	2·5 F acid †	An. ch. 7
16. F	27.	.	.	.	.	.	.	.	Brong.
32·25 F	.	.	.	.	.	.	.	.	No. 165
35. P	.	.	.	.	.	.	.	.	Thomson
32·66 F	.	.	.	.	.	.	.	.	Ditto
49·5 F	.	.	.	3·75	.	10.	.	2. s. lime ‖	Leon. 13
28·5 F	31.	15·5	.	1.	.	.	2.	1. P acid	An. ch. 9
45·2 S	.	.	.	.	.	22.	.	.	Tab. com.
47. S	.	.	.	.	.	21.	.	.	Ditto
43.9 S	.	.	.	.	.	21.	.	.	Thomson
43·5 S	.	.	.	.	.	21.	2·5	.	Ditto
.	.	.	.	.	.	.	.	.	.
.	8.	.	.	.	.	.	.	.	Thury
60. S	.	.	.	.	.	.	.	.	Klap. 198
55. S	.	.	.	.	.	.	2·25	1. m. soda	No. 147
57. S	·25	.	.	1.	.	.	.	.	Ditto
56·5 S	.	.	.	.	.	.	.	·25 soda	Ditto
50·54 A	.	.	.	.	.	24·26	.	.	No. 106
45·68 A	.	.	.	.	.	23·86	3·18	.	Journal
24. B	36·5	.	.	.	.	4.	.	.	No. 164
21·67 B	37·66	.	.	.	.	5·5	1·17	.	Lucas
13·5 B	36.	.	.	1.	.	6·5	.	.	No. 192

5 residue, ‖ With 5·25 lime and silex.

		Trivial Name	Locality	Sp.gr.	Analyst	Baryt.
XIV.	2. genus, BARYTES.					
	1. Sp. Sulphate	Heavy spar	Peggau	4·38	Klaproth	60.
		Baroselenite	·	4·29	Withering	67·2
		Ditto	New Jersey	4·41	Chilton	61·34
		Do *testaceous*	Freyberg	·	Klaproth	97·5 s
		Do. *compact*	·	·	Westrumb	83. s
		Hepatit	Andrarum	4·12	Bergman	29.
		Ditto	Ditto	·	Klaproth	85·25 s
		Ditto	Ditto	·	John	92·75 s
		Ditto	Kongsberg	·	Ditto	93·55 s
	3. Sp. Carbonate.	Witherite	Anglesark	4·30	Klaproth	78.
		Ditto	·	·	Vauquelin	74·5
		Ditto	·	·	Pelletier	62.
						Stront.
XV.	3. gen. STRONTITES.					
	1. Sp. Sulphate.	Celestine	Sicily	3·92	Vauquelin	54.
		Compact	Mt. Martre	3·59	Ditto	91·42 s
		Ditto	Bouvron	·	Ditto	83. s
		Fibrous	Pensylvania	3·83	Klaproth	58.
		·	Süntal	3·90	Stromeyer	97·2 s
	2. Sp. Carbonate.	Strontianite	Argyleshire	3·67	Hope	61·21
		Ditto	Ditto	·	Pelletier	62.
		Ditto	Ditto	3·67	Klaproth	69.
						Mag.
XVI.	4. gen. MAGNESIA.					
	1. Sp. Native.	·	New Jersey	2·13	Bruce	70.
		·	·	·	Vauquelin	64.
	2. Sp. Carbonate.	Magnesite	Baudisero	·	Giobert	68.
		Ditto	Steirmark	2·91	Klaproth	48.
		Ditto	Hrubschitz	·	Mitchell	47·5
		Ditto	Ditto	·	Wondrash.	33.
		Ditto	Ditto	·	Bucholz	48.
		Ditto	Ditto	·	Ditto	46·59
		·	Castelamonte	2·61	Guyton	26·3
		Meerschaum	Levant	·	Klaproth	18·25
		Ditto white	Ditto	1·60	Ditto	17·25
		Pipehead	·	·	———	51·61
	3. Sp. Borate.	Boracite	Luneberg	2 56	Westrumb	13 5
						Alum.
XVII.	5. gen. ALUMINE.					
	1. Sp. Sulphate.	Pure clay	Halle	1·67	Simon	32·5
		·	·	·	Bucholz	31.
		Kolyrite	Schemnitz	·	Klaproth	45.
		Alum stone	Hungary	·	Ditto	17·5
		Alum slate	Freynwald	·	Ditto	16.
		·	Tolfa	·	Ditto	56·5
		·	Ditto	·	Vauquelin	43·92
	2. Sp. Alkal. Fluate.	Cryolite	Greenland	2·94	Klaproth	24.
		·	Ditto	·	Vauquelin	21.

† With 2·8 sulph. 1·8 s. of

S. acid	C.acid	Silex	Alum.	Lime	Iron	Water	Loss	Other ingred.	Authority
30.	.	10.	.	.	.	.	.	.	No. 35
32·8	.	.	.	.	.	.	.	.	Thury
30·67	.	3.	*	.	1.	2.	.	* s. stron.	Am.Jour.
.	.	·8	·05	.	.	·7	.	·85 ditto	No. 36
.	.	6.	1.	2·5	4.	2.	.	.	Gallizin
*	.	33.	5.	3·7	.	*	.	.	Klaproth
.	.	1.	.	6. s	5.	.	.	.	No. 190
.	.	.	.	2. s	1·5	1·25	.	2. bit. &c.	Leon. 12
.	.	.	.	3·58 s	·87	2.	.	* s. stron.	Ditto
.	22.	.	.	.	.	.	.	.	No. 18
.	22·5	.	.	.	.	.	.	.	Thury
.	22.	.	.	.	.	16.	.	.	An. ch.21
S. acid	C.acid	Lime	Iron	Water	Baryt	Silex	Loss	Other ingred.	
46.	.	.	.	.	.	.	.	.	Tab. com.
.	.	8·3 c	·25	.	.	.	.	.	Journal
.	.	10. c	.	6.	.	.	.	.	Ditto
42.	.	.	*	.	.	.	.	.	No. 49
.	.	.	·12	·19	2·22s	·25	.	.	Annals
.	30·2	.	.	8·59	.	.	.	.	Aikin
.	30.	.	.	8.	.	.	.	.	An. ch. 21
.	30.	.	.	·5	.	.	.	.	No. 18
Acid	Silex	Alum.	Lime	Iron	Mang	Water	Loss	Other ingred.	
.	.	.	.	.	.	30.	.	.	Am. Jour.
.	2.	.	.	2·5	.	29.	2·5	.	Journal
12. c	15·6	.	1·6 s	.	.	3.	.	.	Ditto
49. c	.	.	.	.	.	3.	.	.	No. 185
51, c	.	.	.	*	.	1·5	.	.	Journal
30. c	8.	.	·5	1·5	*	20.	.	.	Tab. com.
52. c	.	*	*	*	.	.	.	.	An. chim.
51. c	·16	1.	.	·25	*	1.	.	.	Ditto 74
46. c	14·2	.	.	*	.	12.	1·5	.	Ditto 47
7·8 c	41.	.	·5	.	.	32·2	.	.	No. 52
5. c	50·5	.	·5	.	.	25.	.	.	Ditto
.	54·16	.	.	.	.	.	.	.	Brochant
68. B	2.	1.	11.	·75	.	.	.	.	An. ch. 2
Acid	Silex	Lime	Iron	Potas.	Soda	Water	Loss	Other ingred.	
19·25 s	·45	·35 c	·45	.	.	47.	.	.	Tab. com.
21·5 s	1.	·5	·5	.	.	45.	·5	.	Thomson
.	14.	.	.	.	.	42.	.	.	No. 17
12·5 s	62·25	.	.	1.	.	5.	1·75	.	No. 150
.	40.	1·5 s	6·4	1·5 s	.	10·75	†	19·65 carbon	No. 151
16·5 s	19.	.	.	4.	.	3.	.	.	No. 150
25. s	24.	.	.	3·8	.	4.	.	.	Ditto
40. F	.	.	.	.	36.	*	.	.	No. 97
46. F	.	.	.	.	33.	*	.	.	An.ch. 37

iron, ·5 m. of potash, ·25 mag.

		Trivial Name	Locality.	Sp. gr.	Analyst	Silex
XVIII.	1. Sp. QUARTZ.		.	2·65	Haüy	.
	a. Cristallised	Rock cristal	.	2 80	Tromsd.	100.
		Ditto	.	.	Bucholz	99·37
		Ditto	.	.	Berg	93.
		Ditto	.	.	Bucholz	97·75
	b. Purple	Amethyste	.	2·65	Rose	97·5
	c. Blue	False saphir	.	2·58	.	.
	d. Green	Prase	.	.	Bucholz	98·5
	e. Yellow	Scotch topaz	.	2·65	Haüy	.
	f. Rose	Milk quartz	.	2·67	Ditto	.
	g. Resplendent	Cats eye *white*	Ceylon	2·66	Klaproth	95.
		brown	Malabar	2·62	Ditto	94·5
	h. Hematitic	Hyacinthe of	Compostello	.	.	.
		Iron flint *red*	.	.	Bucholz	76.
		Ditto *brown*	.	.	Ditto	92.
		Ditto *yellow*	.	.	Ditto	93·5
	i. Flinty slate	.	.	.	.	.
	k. Scaly	Avanturine	.	.	.	.
	l. Granular, *Grey*	Sandstone	Hartz	.	Westrumb	68.
	Green	Ditto	Spessart	2·50	Klaproth	85·25
	Redish brown	Ditto	Ilefeld	.	Westrumb	71.
	Greenish yellow	Ditto	Cantal	2·85	Langier	84.
	Greenish brown	Ditto	Autun	.	Vauquelin	74.
		Elastic quartz	Brasil	.	Klaproth	96·5
	m. Fibrous	.	Vorgebirge	.	Ditto	98·5
	n. Amorphous	.	.	2·58	Morveau	92·42
			.	.	Bucholz	99·75
	Pseudo quartz	After cristals	.	2·55	Guyton	92·42
XIX.	2. Sp. CALCEDONY.					
	a. Stalactitical	Com.calcedony	Faroe	2·66	Bergman	84.
		Ditto	Ditto	.	.	83.
	Saphirine	Ditto	Siberia	.	Tromsd.	100.
	b. White	Cachalong	.	.	.	.
	c. Coloured	Carnelian	.	2·61	Tromsd.	99.
		.	Siberia	.	Bindheim	94.
	d. Variegated	Agate	.	.	.	.
	e. Green	Heliotrop	Bohemia	2·60	Tromsd.	84.
		Ditto	Olympus	2·55	Klaproth	96.27
	f. Chrysoprase	Chrysoprase	Kosmutz	2·58	Ditto	96·17
	g. Massive	Hornstone	.	.	.	.
XX.	3. Sp. OPAL.					
	a. Precious	Noble opal	Hungary	2·10	Klaproth	90.
	b. Hydrophanous	Oculus mundi	Saxony	.	Ditto	93·13
		Ditto	.	.	Weigleb.	82·9
		Ditto	Mussinet	.	Bonvoisin	60.

Alum	Lime	Mag.	Iron	Mang.	Alkali	Water	Loss	Other ingred.	Authority
.	.	.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.	Thomson
*	.	.	*	.	.	.	.	.	An. Ch. 70
6.	1.	.	.	.	.	.	.	.	Gallizin
·5	.	.	*	.	.	1.	·75	.	Thomson
·25	.	.	·5	·25	.	.	1.5	.	Tab. Com.
.	.	.	.	.	.	.	.	.	.
·5	.	.	1.	*	.	.	.	.	Jour. 27
.	.	.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.	.
1·75	1·5	.	·25	.	.	.	1·5	.	No. 5
2.	1.5	.	.25	.	.	.	1·75	.	Ditto
.	.	.	.	.	.	.	.	.	.
·25	.	.	21·5	.	.	1.	1·25	.	Thomson
.	.	.	5.75	1.	.	1.	·25	,	Ditto
.	.	.	5.	.	.	.	.	.	Jour. 27
.	.	.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.	.
25.	2.	.	4.	.	.	.	.	.	An. Ch. 4
1.	.	.	7.	.	.	5.	.	.	.
19.	7. c	.	9.5	.	.	.	.	1. baryte	An. Ch. 4
.	.	.	8.	.	.	7.	.	.	An.Ch.69
2.	1.	1.	15.	.	.	4.	3.	.	Jour. 27
2.5	.	.	5.	.	.	.	.	.	No. 42
.	.	.	1.5	.	.	.	.	.	Leon. 12
6·3	1.55	.	.	.	.	.	.	;	Gallizin
·5	.	.	*	.	.	1.	·75	.	Thomson
.	3·55	2.	.	.	.	.	2·13	.	An.Ch. 30
16.	.	.	.	.	.	.	.	.	Thomson
2.	11.	.	*	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.	An.Ch. 34
.	.	.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	1.	.	Tab. Com.
3·5	1·5	.	.	.	.	.	1.	.	Gallizin
.	.	.	.	.	.	.	.	.	.
7.5	.	.	5.	.	.	.	1·5	.	Gallizin
·25	.	.	·5	.	.	2.5	.	.	No. 158
·08	·83	.	·08	.	.	.	1·84	1. nickel	No. 44
.	.	.	.	.	.	.	.	.	.
.	.	.	.	.	.	10.	.	.	No. 45
1·62	.	.	.	.	.	5·23	.	.	No. 36
5·8	.	.	·1	.	.	5·8	5·4	.	An. ch. 6
35·77	3·5	.	·25	.	.	.	.	.	Saussure

XX.	3. Sp. OPAL. *Contin.*	Trivial Name	Locality	Sp.gr.	Analyst	Silex
	c. Common yellow	Semiopal	Telkobania	1·90	Klaproth	93·5
	Milk white	.	Kosmutz	.	Ditto	98·75
	Grey	.	Mähren	2·02	Ditto	83.
		Feuer opal	Mexico	2·12	Ditto	92.
	d. Brown	Menilite	Menil mont.	2·18	Ditto	85·5
	e. Blue	.	.	.	.	.
	f. Stalactitical	Hyalite	Frankfort	.	Bucholz	92.
		.	.	.	Link.	57.
		Fibrous incr.	Geyzer	1·80	Klaproth	98.
XXI.	4. Sp. FLINT.					
	a. Compact	Common flint	.	2·63	Klaproth	98.
		.	Ochabo, Pol.	.	Hacquet	92·75
	Flint	.	Pednigarb do	.	Ditto	92·75
		.	Dodromiel do	.	Ditto	92·5
		.	Studeno do	.	Ditto	97.
		.	Nudanto do	.	Ditto	89.
		.	.	.	Vauquelin	96·75
		White crust	.	.	Ditto	86·42
	b. Decomposed	Swimming st.	.	.	Ditto	98.
	c. Brown	Egypt. pebble	Egypt	2·88	Weigleb	74·58
XXII.	5. Sp. JASPER.	.	.	2·71	Haüy	.
	a. Common	.	.	2·70	Kirwan	75.
		.	.	.	Ditto	80.
	b. Opal jasper	.	.	.	.	.
	c. Porcellaine jasper	.	.	.	Rose	60·75
XXIII.	6. Sp. PITCHSTONE.	Olive green	Cantal	2·40	Bergman	78.
		.	Meisner	1·64	Klaproth	73.
		Blackish grey	Planitz	2·40	Bergman	59.
XXIV.	7. Sp. PEARLSTONE.	.	Telkobania	2·34	Klaproth	75·25
		Pierre perlée	Cinapecuaro	2 54	Vauquelin	77.
		Marekanite	Siberia	2·36	Lowitz	74.
XXV.	8. Sp. OBSIDIAN.	.	Hecla	.	Tromsdorf	63.
		.	.	2·34	Vauquelin	78.
		.	Mexico	2·90	Drapier	74.
			Ditto	.	Ditto	71.
		.	Ditto	.	Descostils	72.
XXVI.	9. Sp. LAVA.					
	a. Compact	Lava	St. Venere	2·82	Kennedy	50·75
		.	Catania	2·79	Ditto	51.
	b. Vesicular	Pumice	Lipari	.	Klaproth	77·5
		.	.	.	Ditto	77·5
	c. Earthy	Moya	Quito	.	Ditto	46·5
		Volcan. ashes	Isle of France	.	Ditto	72.

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† With 14·5 inches hyd. gas. and 2·

OMPOUNDS.

Alum	Lime	Mag.	Iron	Mang.	Alkali	Water	Loss	Other ingred.	Authority
.	.	.	1.	.	.	5.	·5	.	No. 48
·10	.	.	·10	.	.	.	1·5	.	No. 47
3.	.	.	1·75	.	*	8.	.	.33 bit. oil	No. 175
.	.	.	·25	.	.	7·75	.	.	No. 139
1.	·5	.	·5	.	.	11.	1·5	.	No. 50
.	.	.	.	.	.	.	.	.	.
*	.	.	.	.	.	6·33	1·66	.	An. ch. 73
18.	15.	.	3.	.	.	.	7.	.	Thomson
1·5	.	.	·5	.	.	.	.	.	No. 41
·25	.5	.	·25	.	.	.	.	.	No. 1
1·5	2·75	·51	1.	.	.	.	1·49	.	Journal 20
1·10	1·25	.	2.	.	.	.	2·9	.	An. ch. 64
.	3.	.	1·25	·75	.	.	2·5	.	Ditto
1.	·25	.	1.	.	.	.	·75	.	Ditto
2.	4·15	.	1·75	.	.	.	3.	.	Ditto
·25	.	.	·5	.	.	.	2·5	.	Thomson
.	9·88	.	1·23	.	.	.	2·47	.	Aikin
.	2.	.	.	.	.	.	.	.	.
15·4	.	5.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.	.
20.	.	.	5.	.	.	.	.	.	Gallizin
5.	2.	.	13.	.	.	.		.	Thury
.	.	.	.	.	.	.	.	.	.
27·25	.	3.	2.5	.	3·6 P	.	2·9	.	Thomson
3.	4·5	.	2.	.	3. S	.	2·5	.	Journal 16
14·5	1.	.	1.	·1	1·75 S	8·5	.	.	No. 102
18·5	4.	.	3.5	.	3. S	8.	.	.	Journal 16
12.	·5	.	1·6	.	4·5 P	4·5	.	.	No. 116
13.	1·5	.	*	3.	2. P	4.	.	·7 soda	An. ch. 55
12.	7.	3.	1.	.	.	.	3.	.	Gallizin
20·5	.	.	13·5	.	.	.	.	.	An. ch. 34
10.	1.	.	2.	1·6	6. P	.	1·4	.	Thomson
14.	1·2	.	*	3.	3·3 P	.	4·3	* soda	Ditto
13·4	1.	.	*	4.	4. P	.	6.	* ditto	Ditto
12·5	.	.	*	2.	10. P	.	3·5	* ditto	Ditto
17·5	10.	.	14·25	.	4. S	1.	.	.	Ed. Trans.
19.	9.5	.	14·5	.	4. S	1.	.	.	Ditto
17·5	.	.	1·75	*	.	.	3·25	.	No. 33
17·5	.	.	1·75	.	3. S	.	.	* potash	No. 103
11·5	6·25	.	6·5	.	2·5 S	11.	.	†	No. 138
2·5	.	.	2·5	.	.	21.	.	.	No. 154

·25 inches carb. acid.

		Trivial Name	Locality	Sp.gr.	Analyst	Silex
XXVII.	10. Sp. BASALT.	.	Staffa	.	Kennedy	48.
		.	Hassenberg	3·06	Klaproth	44·5
XXVIII.	11. Sp. BASALT TUFF	.	Calton Hill	.	Kennedy	50.
XXIX.	12. Sp. GREENSTONE	.	Salisb. craig	2·80	Kennedy	46.
XXX.	13. Sp. CLINKSTONE	.	Donnersbg.	2·57	Klaproth	57·25
		.	Auvergne	2·56	Bergman	58.
XXXI.	14. Sp. ZIRCON.	Jargon	Ceylon	4·62	Klaproth	31·5
		.	Ditto	.	Ditto	26·5
		.	India	4·48	Ditto	32·5
		Hyacinth	Ceylon	4·58	Ditto	25.
		.	Ditto	4·38	Vauquelin	32.
		.	Expaillie	.	Ditto	31.
		Zirconite	Norway	4·48	Klaproth	35.
		.	Fk.Schwerin	.	John	34.
XXXII.	15. Sp. CORUNDUM.	.	.	3·99	Haüy	.
	a. Perfect	Saphir	Oriental	3·95	Klaproth	.
		Ditto	Ditto	4·01	Chenevix	5·25
		Oriental ruby	Ditto	3·97	Ditto	7.
	b. Imperfect	Adamant. sp.	Carnatic	3·93	Ditto	5.
		.	Ava	.	Ditto	6·5
		.	Malabar	.	Ditto	7.
		Demant spath.	China	.	Ditto	5·25
		.	Ditto	3·71	Klaproth	6·5
		.	Bengal	.	Ditto	5·5
		.	Piémont	3·97	Vauquelin	4·8
	c. Granular	Emery	Naxos	4.	Tennant	8.
		Do. §	Ditto	.	Ditto	3.
		.	Jersey	.	Vauquelin	.
		.	Ditto	.	Ditto	12·66
	d. Amorphous	.	Madras	.	.	.
XXXIII.	16. Sp. CHRYSOBERIL	.	Brasil	3·71	Klaproth	18.
		.	Ditto	.	Achard	15.
XXXIV.	17. Sp. SPINEL.	Spinel ruby	.	3·76	Vauquelin	.
		.	Ceylon	3·57	Klaproth	15·5
		Pleonaste	Ditto	3·79	Descostils	2.
		Blue spinel	Akers,Swed.	3·68	Berzelius	5·48
		Automolite	Fahlun	4·69	Ekeberg	4·75
		Ditto	Ditto	.	Vauquelin	4.

§ Freed from magnetic iron.

† With 1.

Y COMPOUNDS.

Alum	Lime	Mag.	Iron	Mang	Alkali	Water	Loss	Other ingred.	Authority
16.	9.	.	16.	.	4. s	5.	.	1. m. acid	Ed. Trans
16·75	9·5	2·25	20.	.12	2·6 s	2.	.	.	No. 101
18·5	3.	.	16·75	,	4. s	.	5.	1. m. acid	Ed. Trans.
19.	8.	.	17.	.	3·5 s	4.	1·5	1. m. acid	Ditto
23·5	2·75	.	3·25	·25	1·10 s	3.	.	.	No 100
24·5	3·5	.	4·5	.	6. s	2.	1·5	.	Journal 16
.	.	.	·5	.	.	.	.	68. zirconia	No. 12
.	.	.	·5	.	,	.	.	69. ditto	Ditto
.	.	.	1·5	.	.	.	.	64·5 ditto	No. 192
.	.	.	·5	.	.	.	4·5	70. ditto	No. 13
.	.	.	2.	.	.	.	2.	64·5 ditto	An. ch. 22
.	.	.	1.5	.	.	.	2.	65·5 ditto	Ditto
.	.	1.	.	.	.	.	.	65. ditto	No. 104
.	.	.	·25	.	.	.	.	64. ditto †	Annals
.	.	.	.	.	.	.	.	.	.
98·5	·5	.	1.	.	.	.	.	.	No. 4
92.	.	.	1.	.	.	.	1·75	.	P. Trans.
90.	.	.	1·2	.	.	.	1·8	.	Ditto
91.	.	.	1·5	.	.	.	2·5	.	Ditto
87.	.	.	4·5	.	.	.	2.	.	Ditto
86·5	.	.	4.	.	.	.	2·5	.	Ditto
86·5	.	.	6·5	.	.	.	1·75	.	Ditto
84.	.	.	7·5	.	.	.	2.	.	No. 2
89·5	.	.	1·25	.	.	.	3·75	.	Ditto
92.	.	.	2·4	.	.	.	·8	.	Journal
50.	.	.	32.	.	.	.	.	4. residue	P. Trans.
80.	.	.	4.	.	.	.	.	3. ditto	Ditto
70.	.	.	30.	.	.	.	.	.	Brong.
53·83	1·66	.	24·66	.	.	.	7·19	.	Tab. com.
.	.	.	.	.	.	.	.	.	.
71·5	6.	.	1·5	.	.	.	3.	.	No. 6.
64.	17.	.	1.	.	.	.	.	.	Journal
82·47	.	8·75	.	.	.	.	2·57	6·18 chr. acid	Ditto
74·5	·75	8·25	1·5	.	.	.	.	.	No. 27
68.	.	12.	16.	.	.	.	2.	.	Journal
72·25	.	14·63	4·26	.	.	.	1·55	1·83 residue	Leon. 11
60.	.	.	9·25	.	.	.	1·75	24·25 zinc	Tab. com.
42.	.	.	5.	.	.	.	.	28. ditto ‡	Ditto

titanium.   ‡ With 17. sulph.

		Trivial Name	Locality	Sp.gr.	Analyst.	Silex
XXXV.	18 SP. TOPAZ.	.	Saxony	.	Bergman	39.
		.	Ditto	.	Vauquelin	31.
		.	Ditto	3·54	Klaproth	35.
		.	Ditto	.	Vauquelin	29.
		.	Brasil	3·54	Klaproth	44·5
		.	Ditto	.	Vauquelin	29.
		.	Ditto	.	Ditto	28.
		.	Siberia	3·53	Ditto	30.
		.	Cairngoram	3·56	.	.
	1 *Appendix*	Pycnite	Altenberg	.	Bucholz	34.
		.	Ditto	3·48	Klaproth	43.
		.	.	.	Vauquelin	30.
		.	.	.	Ditto	36.
	2 *Appendix*	Pyrophysallite	Finbo	3·54	Hisinger	32·88
XXXVI.	19 SP. EMERALD.	Precious	Peru	2·77	Klaproth	66·25
		.	Ditto	.	Vauquelin	64·6
		.	Ditto	.	Klaproth	68·5
		Beril	Siberia	.	Vauquelin	68.
		.	Nertschinsk.	2·75	Klaproth	66·45
		.	.	.	Gmelin	54·75
		Blue var.	Siberia	.	Schaub.	66·5
XXXVII.	20 SP. EUCLASE.	.	Brasil	3·06	Vauquelin	35.
XXXVIII.	21 SP. GARNET.	.	.	4.	Haüy	.
	a. Precious	.	Syrian	4·08	Klaproth	35·75
		.	Ditto	.	Vauquelin	36.
		Pyrop	Bohemia	3·71	Klaproth	40.
		.	Greenland	.	Tromsdorf	50.
		.	Ditto	.	Gruner	30·75
		.	Ditto	3·52	Klaproth	43.
		Cinnamon st.	Ceylon	.	Lampad.	42·8
		.	Ditto	3·62	Klaproth	38·8
	b. Common	Red	Eredlitz	.	Vauquelin	52.
		Brown	Langbans.	3·84	John	35·2
		Amorphous	Corsica	4·55	Vauquelin	38.
	c. Black	Melanite	Frescati	3·73	Klaproth	35·5
		.	Ditto	.	Vauquelin	34.
		.	Eredlitz	.	Ditto	43.
		.	Svapavara	.	Hisinger	34·53
	d. Olive green	.	Siberia	3·37	Klaproth	44.
		.	Saxony	.	Weigleb	36·5
		Aplome	Riv. Lena	3·44	Laugier	40.
		Allochroïte	Viroms	3·5	Vauquelin	35.
		.	Ditto	.	Rose	37.
	e. Granular]	Colophonite	Arendahl	.	Simon	35.
	f. Manganesian	.	Spessart	3·6	Klaproth	35.

† With 3·5 chrome ‡ With ·3 chrome.

MPOUNDS

Alum	Lime	Mag.	Iron	Mang.	Alkali	Water	Loss	Other ingred.	Authority
46.	8.	.	6.	.	.	.	.	.	Journal
68.	.	.	.	.	.	.	1.	.	Ditto
59.	.	.	*	.	.	.	1.	5. F. acid	No. 140
49.	.	.	.	.	.	.	2.	20. ditto	Thomson
47·5	.	.	·5	.	.	.	.	7. ditto	No. 140
50.	.	.	.	.	.	.	2.	19. ditto	Thomson
47.	.	.	4.	.	.	.	4.	17. ditto	Ditto
48.	.	.	2.	.	.	.	2.	18. ditto	Ditto
.	.	.	.	.	.	.	.	.	.
48.	.	.	.	.	.	.	.	17. ditto	Klap. 180
49·5	.	.	1.	.	.	1.	1·3	4. F. acid	Ditto
60.	2.	.	.	.	.	1.	1.	6. ditto	Brong.
52·6	3·3	.	.	.	.	.	1·5	5.8 ditto	Thomson
53·25	·88	.	·88	*	.	.	11·36	·75 calcin.	An. Ch. 58
31·25	.	.	·5	.	.	.	.	.	No. 28
14.	2·56	.	.	.	.	2.	.	13. glucin †	An. Ch. 26
15·75	·25	.	1.	.	.	.	.	12.5 glucin ‡	.
15.	2.	.	1.	.	.	.	.	14. glucin	Journal
16·75	.	.	·6	.	.	.	.	15·5 ditto	No. 98
24·41	.	.	1·5	.	.	2.	1·9	15·4 ditto	An. Ch. 44
16·75	*	.	1.	.	.	.	·75	15. ditto	Ditto
22.	.	.	3.	.	.	.	·28	12. ditto	Journal 10
.	.	.	.	.	.	.	.	.	.
27·25	.	.	36.	·25	.	.	.	.	No. 30
22.	3.	.	41.	.	.	.	.	.	Tab. com.
28·5	3·5	10·	16·5	·25	.	.	.	.	No. 29
28.	.	.	6.	.	.	.	6.	10. zircon	Klap. 193
30·5	7.	.	16.	.	.	2.	2·75	11. ditto	Ditto
15·5	1·75	8·5	29·5	·5	.	.	.	.	Ditto
8·6	3·8	.	3.	.	6. F	2·6	4·4	28.8 zircon	Ditto 194
21·2	31·25	.	6·5	.	.	.	2·25	.	Ditto
20.	7·7	.	17.	.	.	.	3·3	.	Tab. com.
·2	24·7	.	26.	8·6	1.05 s	.	2·25	2. sulph.	Leon. 12
20.	31.	.	10.	5.	.	.	1.	.	Thomson
6.	32·5	.	24.25	·4	.	.	.	.	No. 199
6·4	33.	.	25·5	*	.	.	1·1	.	Haüy
16.	20. c	.	16.	.	.	4.	1.	.	Journal
1.	34·26	.	36·05	.	.	·5	3·56	.	Leon. 11
8·5	33·5	.	12.	*	.	.	2.	.	No. 157
.	30·8	.	28·7	.	.	4.	.	* c. acid	An. Ch. 1
20.	14·5	.	14.	2.	.	.	5.	2. calcin. §	Ditto 71
8.	30·5	.	17.	3·5	.	.	.	6. c. acid	Aikin
5.	30.	.	18·5	6·25	.	.	.	.	Ditto
15.	29.	6·5	7·5	4·75	.	1.	·75	0·1 titan.	Tab. com.
14·25	.	.	14.	35.	.	.		.	No. 60.

§ With 2. Silex and Iron mixed.

		Trivial Name	Locality	Sp.gr.	Analyst	Silex
XXXIX.	22. SP. LEUCITE.	White garnet	Vesuvius	2·45	Klaproth	53·75
		.	Albano	2·49	Ditto	54·23
		.	Pompeji	.	Ditto	54·5
		.	.	.	Vauquelin	56.
XL.	23. SP. VESUVIAN.	Idocrase	Vesuvius	2·42	Klaproth	35·5
		Wilonite	Siberia	3·39	Ditto	42.
XLI.	24. SP. MEIONITE.	.	Somma	3·27	Vauquelin	46.
XLII.	25. SP. FELSPAR.					
	a. Common	Petunze	.	.	Vauquelin	74.
		.	Finbo	.	Hedenberg	72·75
		.	Carnatic §	2·64	Chenevix	64.
		.	Piémont §	.	Vauquelin	62·4
		In grains	Ceylon	.	Chenevix	68·5
		Indianite	Carnatic	.	Ditto	42·5
	b. Resplendent	Adularia	.	2·56	Vauquelin	64.
		.	Drachenfels	2·57	Klaproth	68.
	c. Opalescent	Labradore sto.	Labradore	2·69	Bindheim	96·5
		.	.	.	Gerrard	62.
	d. Green	Amazon stone	Siberia	2·70	Vauquelin	62·83
	c. Blue	.	Kreiglach	3·04	Klaproth	14.
		Siderite	WerfenSalzb^{g}.	.	Tromsdorf	10.
	f. Compact	Hornstone	Loraine	.	Kirwan	72.
		.	.	.	St. Memin	68.
		Gabronite	Norway	.	John	54.
	g. Tough	Jade de Sauss.	Switzerland	3·34	Saussure	44.
		Ditto	.	3·20	Klaproth	49.
		.	.	.	Hæpfner	47.
		Nephrite	Oriental	2·95	Saussure	53·75
		.	.	.	Kastner	50·5
	h. Decomposed	Kaolin	.	2·20	Vauquelin	71·15
		Feldsp. *Broyé*	St Yrieux	.	Hassenf.	70.
		Porcell. earth	Ditto	.	Ditto	61.
		.	.	.	Vauquelin	55.
XLIII.	26. SP. SODALITE.	.	Grœnland	.	Ekeberg	36.
		.	Ditto	.	Thomson	38·52
XLIV.	27. SP. NATROLITE.	.	Hæn-Twiel	2·2	Klaproth	48.
XLV.	28. SP. SPODUMENE.	Triphane	Sweden	2·28	Vauquelin	64·4
		.	.	.	Berzelius	67·5
		.	.	.	Hisinger	63·4
XLVI.	29. SP. AXINITE.	Thumerstone	St Christoph.	.	Klaproth	52·7
		.	.	.	Ditto	50·5
		.	.	.	Vauquelin	44.

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§ Accompanying the corundum of Carnatic and Piémont.

COMPOUNDS.

Alum	Lime	Mag.	Iron	Mang	Alkali	Water	Loss	Other ingred.	Authority
24·62	.	.	.	.	21. P	.	·28	.	No. 32
22.	.	.	.	.	22. P	.	1.	.	Ditto
23·5	.	.	.	.	19·5 P	.	2·5	.	Ditto
20.	2.	.	.	.	20. P	.	1.	.	Thomson
22·25	33.	.	7·5	·25	.	.	1·5	.	No. 31
16·25	34.	.	5·5	*	.	.	2·25	.	Ditto
49.	2.	.	1.	.	.	.	.	.	Thomson
14·5	5·5	.	.	.	.	.	6.	.	Tab. com.
13.	9·5	.	1.	.	.	·25	3·5	.	Leon. 11
24.	6·25	.	2.	.	.	.	3·75	.	P. Trans.
17.	1·2	.	4.	.	.	15·4 ‡	.	.	Journal
20·5	7.	.	1·5	.	.	.	2·5	.	P. Trans.
37·5	15.	.	3.	*	.	.	.	.	Bournon
20.	2.	.	.	.	14. P	.	.	.	Tab. com.
15.	.	.	·5	.	14·5 P	.	2.	.	No. 171
13·6	12·5	.	3.	.	.	.	3·9	·7 copper	Thomson
30.	.	.	4.	.	.	4.	.	.	Ditto
17·02	3.	.	.	.	16. P	.	·15	.	An. Ch. 30
71.	3.	5.	·75	.	.	5.	.	·25 chrome	No. 153
66.	2.	18.	2·5	.	.	.	1·5	.	An. Ch. 62
22.	6.	.	.	.	.	.	.	.	Gallizin
9.	1.	.	4.	.	5·55 P	2·25	·2	.	Tab. com.
24.	.	1·5	1·25	*	17·25 †	2.	.	.	Annals
30·	4.	.	12·25	·05	·25 P	.	3·2	6. soda	Ditto
24.	10·5	3·75	6·5	.	.	.	.	5·5 ditto	No. 152
4.	2.	38.	9.	.	.	.	.	.	Ditto
1·5	12·76	.	5.	2.	8·5 P	2·25	3·5	10·75 soda	Tab. com.
10.	.	31.	5·5	.	.	2·75	2.	·05 chrome	Ditto
15·86	1·92	.	.	.	.	6·73	4·34	.	Ditto
12.	.	9.	.	.	.	.	.	8. baryte	An. Ch. 14
19.	12.	.	.	.	.	.	.	7. ditto	Ditto
27.	2.	.	5.	.	.	14.	.	.	Thomson
32.	.	.	.25	.	25. S	.	.	6·75 m. acid	Letter
27·48	2·70	.	1.	.	23·5 S	2·1	1·7	3. ditto	Ed. Trans.
24·25	.	.	1·75	.	16·5 S	9.	.	.	No. 179
24·4	3.	.	2·2	.	5. P	.	1.	.	Tab. com.
27.	·63	.	3.	.	.	.	1·34	·53 vol.mat.	Leon. 12
29·4	·75	.	3.	.	.	.	2·92	·53 ditto	Ditto
25·6	9·4	.	9·6	.	.	.	2·7	.	No. 43
16.	17.	.	9·5	*5·25	·25 P	.	.	.	No. 174
18.	19.	.	14.	4.	.	.	1.	.	Tab. com.

† Potash and soda.

‡ Water and perhaps potash.

		Trivial Name	Locality	Sp.gr.	Analyst.	Silex
XLVII.	30 Sp. TOURMALINE.		.	3·36	Haüy	.
	1. Common	.	Eibenstock	3·22	Klaproth	36·75
		.	Spessart	3·08	Ditto	36 5
		Com. schorl	.	.	Weigleb	33·35
		Ditto	.	.	Gerhard	38.
		Ditto	St Gothard	.	Bucholz	36·5
		Ditto	Ditto	.	Ditto	35.
		Ditte	Tyrol	.	Ditto	35·5
	2. Green	.	Ceylon	3·36	Vauquelin	40.
		.	Brasil	3·15	Bergman	37.
	3. Blue	Indicolite	.	.	.	.
	4. Red	Rubellite	Siberia	.	Herman	47.
		.	Ditto	2·87	Vauquelin	47·27
		Transparent	Ditto	3·10	Ditto	42.
		Opake	Ditto	.	Ditto	45.
		Stangenspath	Rosena	3·02	Klaproth	43·4
		Ditto	Ditto	.	Bucholz	39·25
XLVIII.	31. Sp. AMPHIBOLE.					
	a. Cristallised	Hornblend	Cap de Gate	2·25	Laugier	42.
		Basaltic ditto	Fuldischen	3·15	Klaproth	47.
		.	.	3·33	Bergman	58.
		Actinolite	Zillerthall	3·33	Laugier	50.
		Com.hornblen.	Nora	3·24	Klaproth	42.
		.	.	.	Kirwan	37.
		.	.	.	Herman	37.
	b. Radiated	Actinolite	.	.	Bergman	72.
		.	.	.	Ditto	54.
	c. Acicular	Amianthoïde	Oisans	3·45	Vauquelin	47.
		Absestous act.	Cornwall	2·91	Thomson	33·4
XLIX.	32. Sp. HYPERSTÈNE					
		Labrad. hornb.	.	3·39	Klaproth	54·25
		Anthophyllite	Kongsberg	3·29	John	62·68
		.	.	.	Ditto	56.
L.	33. Sp. AUGITE.					
	a. Cristallised	.	Etna	3·22	Vauquelin	52.
		.	Ditto	.	Tromsdorf	54.
		.	Frascati	3·40	Klaproth	48.
		.	Rhineberg	3·33	Ditto	52.
		.	Ditto *green*	3·28	Ditto	55.
		.	Arendahl	3·6	Roux	45.
		.	Ditto	.	Simon	52.
		Foliated	Carinthia	3·08	Klaproth	52·5
		Slaggy	Sicily	2·66	Ditto	55.
		Mussite	Piémont	.	Laugier	57.
	b. Granular	Cocolite	Arendahl	2·37	Vauquelin	50.
	c. Compact	Lherzolite	Pyrenees	.	Vogel	45.

† With 3·84 Tunst

Y COMPOUNDS.

Alum	Lime	Mag.	Iron	Mang.	Alkali	Water	Loss	Other ingred.	Authority
.	.	.	.	.	.	.	.	.	.
34·5	.	·25	21.	*	6. p	.	.	.	No. 195
31.	.	1·25	23·5	*	5.5 p	.	.	.	Ditto
48·83	.	.	21·41	3·33	.	.	3·1	.	Thomson
20.	20.	.	19.	.	.	.	3.	.	Ditto
33·75	·25	6·08	8.	*	.	1.5	13·92	.	Leon. 13
31·5	·06	5·94	6·12	.	.	2.	19·25	.	Ditto
33·25	·5	9·3	5·10	.	.	.	16·35	.	Ditto
39.	3.84	.	12·5	2.	.	.	2·66	.	Journal
39.	15.	.	9.	.	.	.	.	.	Ditto
.	.	.	.	.	.	.	.	.	.
28.	7.	10.	.	2.	.	.	6.	.	Gallizin
45·46	1·78	.	.	5·49	.	.	.	.	Lucas
40.	.	.	*	7.	10. s	.	1.	.	No. 170
30.	.	.	*	13.	10. s	.	2.	.	Ditto
42·25	·1	.	.	1·5	9. s	1·25	.	.	No. 183
45·25	1.	.	*	2.	7·22 s	4.	1·2	.	Leon 10
7·69	9·8	10·9	22·69	1·15	.	1·92	3·85	.	Tab. com.
26.	8.	2.	15.	.	.	·5	1·5	.	No. 196
27.	4.	1.	9.	.	.	.	1.	.	Brong.
·75	9·75	19·25	11.	.	.	3.	1·25	5. chrom.	An. ch. 66
12.	11.	2·25	30.	·35	* p	·75	.	.	No. 196
22.	2. c	16. c	15.	.	.	.	3.	.	Kirwan
27	5.	3.	35.	.	.	.	.	.	Thury
2.	6.	12.	7.	.	.	.	.	.	Ditto
27.	·33	20.	4.	.	.	.	.	.	Ditto
.	11·3	7·3	20.	10.	.	.	4·4	.	Tab. com.
28·2	1·05	·6	17·15	7·2	3·8	1·7	2·06	·1 copper+	An. ch. 212
2·25	1·5	14.	24·5	*	.	1.	2·5	.	No. 177
13·33	3·33	4.	12.	3·25	.	.	1·43	.	No. 215
13·3	3·33	14.	6.	3.	.	1·43	.	.	Leon. 1812
3·83	13·2	10.	14·66	2.	.	.	4·49	.	An. ch. 30
3·05	16·2	14.	7.	2.	5·18 p	.	.	.	Thomson
5.	24.	8·75	12.	1.	* p	.	1·25	.	Ditto
5·75	14.	12·75	12·75	·25	* p	.	·25	.	No. 197
5·5	12·5	13·75	11.	*	.	1.	.	.	Ditto
3.	30·5	.	16.	5.	.	.	·5	.	Journal
3·5	25·5	7.	10·5	2·25	.	·5	.	.	Tab. com.
7·25	9.	12·5	16·35	.	·5 p	.	.	.	No. 142
16·5	10.	1·75	13·75	*	.	.	1·5	.	No. 143
.	16·5	18·25	6.	*	.	.	2·25	.	No. 177
1·5	24.	10.	7.	3.	.	.	4·5	.	Tab. com.
1.	19·5	16.	12.	*	.	.	6.	·5 chrom.	Jour. 199

ic acid.

		Trivial Name	Locality	Sp. gr.	Analyst	Silex
LI.	34. Sp. JENITE.	Yénite	Elba	4·06	Vauquelin	30.
		.	Ditto	.	Descostils	28.
LII.	35. Sp. GADOLINITE.	Ytterbite	Ytterby	.	Ekeberg	23.
		.	.	.	Ditto	25.
		.	.	4·04	Vauquelin	25·5
		.	.	4·23	Klaproth	21·25
		Kohlenblende	Bornholm	.	Ditto	22.
LIII.	36. Sp. SAHLITE.	Malakolith	Sweden	3·23	Vauquelin	53.
		.	Langbanshytt.	2·29	Hisinger	54·18
LIV.	37. Sp. STAUROTIDE.	Grenatite	Morbihan	3·28	Vauquelin	33,
		Ditto	St. Gothard	.	Ditto	30·59
		Ditto *brown*	Ditto	3·76	Klaproth	27.
		Ditto *black*	Ditto	3·51	Ditto	37·5
LV.	38. Sp. EPIDOTE.					
	Cristallised	Arendalit	Norway	3·54	Vauquelin	37.
		Pistazit	Oisans	3·46	Descostils	37.
		Thallit	Siberia	.	John	39.
		Ditto	Carnatic	.	Chenevix	45.
	Prismatic	Ditto	Ditto	.	Ditto	40.
	Yellow	Ditto	Ditto	.	Ditto	42.
	Violet	Ditto	Piémont	.	Cordier	33·5
		Zoïsit	Carinthia	3·31	Klaproth	49.
		.	Ditto	3·26	Ditto	37·5
		Friable	Ditto	3·3	Ditto	44.
	Granular	Skorza	Transylvania	3·13	Ditto	43.
		.	Spessart	2·5	Ditto	88·25
		Foliated	Bareuth	3·31	Bucholz	40·25
		.	Valais	.	Laugier	37.
LVI.	39. Sp. DIALLAGE.	Smaragdite	Corsica	3.	Vauquelin	50.
		Körn. strahlite	Teinach	3·25	Klaproth	56.
		Bronzit	Kraubat	3·2	Ditto	60.
		Ditto	Hartz	.	Drapier	41.
		Ditto	Basta	.	Gmelin	43·7
		Ditto	Ditto	.	Heyer	52.
		†	Lacelle	2·71	Vauquelin	41·66
LVII.	40. Sp. WERNERITE.					
	Cristallised	Green	Arandahl	3·60	John	40.
		White	.	.	Ditto	51·5
		Greenish grey	.	.	Ditto	60·25
	Prismatic	Scapolite	.	3·71	Abildgaard	48.
		Vitreous	.	.	Laugier	45.
		.	.	.	Simon	53.
		Redish brown	Sweden	.	Berzelius	61.
		Sodaït	Nerike	.	Ekeberg	46.
	Compact	Fettstein	Norway	2·61	Vauquelin	44.
		Elacolith	Fk. Schwerin	261	Klaproth	46·5
		Lythrodes	.	.	John	44·62

† Vauquelin does not name this stone, but thinks it may belong to talc, because it w
tion analogous, it is more probably a variety of bronzite. ‡ With

THY COMPOUNDS.

Alum	Lime	Mag.	Iron	Mang.	Alkali	Water	Loss	Other ingred.	Authority
.	12·5	.	57·5	.	.	.	.	.	Tab. com.
·6	12.	.	55.	3.	.	.	1·4	.	Ditto
*	.	.	16·5	.	.	.	·5	55·5 yttria ‡	Letter
4·5	.	.	18.	.	.	.	.	47·5 ditto	Tab. com.
.	2.	.	25.	2.	.	.	10·5†	35. ditto	An. ch. 36
·5	.	.	17·5	.	.	·5	.	59·75 ditto	No. 76
.	.	.	16·5	*	.	·5	.	60. ditto	No. 200
3.	20.	19.	.	4.	.	.	1.	.	Tab. com
.	22·72	17·81	2·18	1·45	.	.	1·2	.	Leon. 12
44.	3·84	.	13.	1.	.	.	5·16	.	Journal
47·06	3.	.	15·3	.	.	.	4·05	.	An. ch. 30
52·25	.	.	18·5	·25	.	.	.	.	No. 182
41.	.	·5	18·25	·5	.	.	.	.	Ditto
21.	15.	.	24.	1·5	.	.	1·5	.	Tab. com.
27.	14.	.	17.	1·5	.	.	3·5	.	Ditto
20.	15.	.	19·5	1·5	*	.	.	* chrome	Leon. 12
28.	15.	.	11.	.	.	.	1.	.	P. Trans.
25.	21·5	.	11·5	.	.	.	2.	.	Ditto
25·5	16.	.	14.	.	.	.	2·5	.	Ditto
15.	14·5	.	19·5	12.	.	.	5·5	.	Journal
29.	21.	i	3	.	.	.	.	.	No. 141
29·5	17·5	.	4·5	.	.	.	.	.	Ditto
32,	20.	.	2·5	*	.	.	.	.	No. 178
21.	14.	.	16·5	·25	.	.	2·5	.	No. 107
1.	.	.	7.	.	.	.	5.	.	No. 189
30·25	22·5	.	4·5	*	.	.	2.	.	Leon. 10
26·6	20.	.	13.	·6	.	1·8	1.	.	Ditto
11.	13.	6.	55.	.	.	4·5	.	7·5 chrom. §	Thury 58
3·25	15·5	18·5	4·25	*	.	.	.	1. ditto	Leon 13
.	.	27·5	10·5	.	.	·5	1·5	.	No. 176
3.	1.	29.	14.	.	.	10.	2.	.	Jour. 16
17·9	.	11·3	23·7	.	.	.	.	.	Thury
23·33	7.	6.	27·5	.	.	.	.	.	Broch.
1·33	1·64	36·34	10.	.	.	.	4·5	4·5 charcoal	An. ch. 49
34.	16·5	.	8.	1·5	.	.	.	.	Jour. 22
33.	10·45	.	3·5	1·45	.	.	.	.	Ditto
30.	10·5	.	3.	2·45	2.	2·85	.	.	Leon. 12
30.	14.	.	1.	.	.	2·	5.	.	Thomson
33.	17·6	.	·5	·5	1·5 s	.	1·4	·5 potash	Tab. com.
15.	13·25	7.	2.	4·5	3·5 s	.	1·75	.	Ditto
25·75	3.	·75	1·5	.	* s	5.	1.	.	Leon 11
28·25	13·5	.	·75	.	5·25 s	3·25	3·5	.	Ditto
34.	·12	.	4.	.	16·5 s	.	.	.	Aikin
30·25	·75	.	1.	.	18.	2.	1·5	.	No. 201
37·36	2·75	*	1.	*	8.	6.	.	.	Annals

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as accompanied with serpentine; being spathose and lamellated, and the composi-
4·5 glucine. § With 1·5 copper.

		Trivial Name	Locality	Sp.gr.	Analyst	Silex
LVIII.	41. Sp. LAZULITE.	Lapis Lazuli	Oriental	.	Klaproth	46
		Ultra marine	Prepared	3·36	Désormes	35·8
		Lasulit de Wer.	.	.	.	.
LIX.	42. Sp. MESOTYPE.	Cristallised	Auvergne	.	Smithson	49.
		Radiated	Faroe	2·08	Pelletier	50.
		Acicular	Ditto	.	Meyer	41.
		.	.	.	Bergman	60.
		.	.	.	Klaproth	44.
	Farinaceous	Mealy	Ditto	.	Vauquelin	50·24
		Ditto	Fahlun	.	Hisinger	60.
	Brick coloured	Edelite	Edelfors	2·51	Bergman	60.
LX.	43. Sp. LAUMONITE.	Efflorescent z.	Huelgoet	2·23	Vogel	49.
LXI.	44. Sp. APOPHYLLITE	Fish eye stone	.	2·46	Vauquelin	51.
		.	.	.	Rose	55.
		.	.	.	Ditto	52.
LXII.	45. Sp. STILBITE.	Foliated zeol.	Faroe	2·50	Vauquelin	52.
	Orange coloured	Fassaït	.	.	.	.
LXIII.	46. Sp. CHABASIE.	Cubic zeolite	Faroe	2·71	Ditto	43·33
	47. Sp. ANALCIME.	.	.	2.	Haüy	.
LXIV.		Cubezit	Viscentin	.	Ditto	58.
		Sarcolite	Ditto	.	Ditto	50.
		Ditto	Castel	.	Ditto	50.
LXV.	48. Sp. PREHNITE.	Cristallised	Dauphiné	2·60	Hassenfr.	50.
		.	Cape	.	Klaproth	43·8
		.	Fassa	2·91	Ditto	42·87
		.	Ratschinkes	2·92	Ditto	43.
		Radiated	Reichenbach	.	Laugier	42·5
		Koupholite	Barêge	2·69	Vauquelin	48.
LXVI.	49. Sp. WAVELLITE.	.	Barnstaple	.	Klaproth	.
		.	South America	.	Ditto	4·5
		.	St. Austle	2·22	Davy	.
		.	Ditto	.	Gregor	6·12
		Diaspore	.	3·4	Vauquelin	.
		Earthy ‡	Freyberg	.	John	.
LXVII.	50. Sp. SOMMITE.	Nepheline	Monte Somma	3·27	Vauquelin	46.
LXVIII.	51. Sp. HARMOTOME.	Cross stone	Andreasberg	2·35	Heyer	44.
		.	Ditto	2·30	Klaproth	49.
		.	Oberstein	2·33	Tassaert	47·5

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† With 10. c. acid.

‡ This substance is descr

POUNDS.

Alum	Lime	Mag.	Iron	Mang	Alkali	Water	Loss	Other ingred.		Authority
14·5	17·5	.	3.	.	.	2.	3.	4·	s. acid +	No. 10
34·8	3·1 c	.	.	.	23·2 s	.	.	3·1	sulph.	Tab. com·
.	.	.	.	.	.	.	.	.		.
27.	.	.	.	.	17. s	9·5	.	.		Nicholson
20.	8.	.	.	.	.	22.	.	.		Tab. com.
31.	11.	.	.	.	.	16.	1.	.		.
18.	16.	.	.	.	.	4.	.	.		Thury 37
30.	8.	.	5.	.	.	2.	.	.		Ditto
29·3	9·46	.	.	.	.	10.	1.	.		Tab. com.
15·6	8.	.	1·8	.	.	11·6	.	.		Leon. 12
20.	16.	.	.	.	.	4.	.	.		.
22.	9.	.	.	.	.	17·5	.	2·5	c. acid	Leon. 11
.	28.	.	.	.	4. p	17.	.	.		Tab. com.
.	25.	.	.	.	2·25 p	15.	2·75	.		Ditto
.	24·5	.	.	.	8·1 p	15.	4.	.		Thomson
17·5	9.	.	.	.	.	18·5	3.	.		Tab. com.
.	.	.	.	.	.	.	.	.		.
22·66	2·24	.	.	.	9·34 s	21.	·33	*	potash	Tab. com.
.	.	.	.	.	.	.	.	.		.
18.	2.	.	.	.	10· s	8·5	3·5	.		Tab. com.
20.	4·5	.	.	.	4·5 s	21.	.	.		Ditto
20.	4·25	.	.	.	4·25 s	20.	1·5	.		Ditto
20·4	23·3	·5	4·9	.	.	·9	.	.		Ditto
30·88	18·33	.	5·66	.	.	1·83	.	.		Ditto
21·5	26·5	*	3.	·25	.	.	4·63	.		Leon. 13
23·25	26.	*	2.	·25	.	.	4·	.		Ditto
28·5	20·4	.	3.	.	·75 s	2.	.	.		An. Ch. 75
24.	23.	.	4.	.	.	1.	.	.		Journal
71·5	.	.	·5	.	.	28.	.	.		No. 187
68.	.	.	1.	.	.	26·5	.	.		Ditto
70.	1·4	.	.	.	.	26·5	2·4	*	F. acid	.
50·7	·37	.	·19	.	.	0·75	3·87	.		Thomson
80.	.	.	3.	.	.	17.	.	.		An. Ch. 42
81·75	4.	·83	.	.	.5 p	13·5	.	.		Annals 21
49.	2.	.	1.	.	.	.	2.	.		Tab. com.
20.	.	.	.	.	.	.	12.	24.	baryte	An. Ch. 6
16.	.	.	.	.	.	15.	.	18.	ditto	No. 37
19·5	.	.	.	.	.	13·5	3·5	16.	ditto	Tab. com.

ibed by John as the white earthy talc of Freyberg.

		Trivial Name	Locality	Sp.gr.	Analyst	Silex
LXIX.	52. Sp. PERIDOT.	Chrysolite	Levant	3·34	Klaproth	39.
	Cristallised	Of commerce	.	3·28	Vauquelin	38.
		.	.	.	Chenevix	39.
	Granular	Olivin	Unkel	3·26	Klaproth	50.
		Ditto decomp.	Karlsberg	.	Ditto	52.
		.	Siberian iron	3·26	Howard	54.
LXX.	53. Sp. LEPIDOLITE.	Lilalite	Rosena	2·81	Klaproth	54·5
		.	.	.	Ditto	54·5
		.	.	.	Vauquelin	54.
		White	.	.	Fromsdorf	52.
		.	Utön	.	John	61·6
LXXI.	54. Sp. MICA.	Glimmer	Muscovy	.	Bergman	40.
		.	.	2·93	Vauquelin	50.
		.	Zinwald	.	Klaproth	47.
		.	Muscovy	2·79	Ditto	48.
		Black	Siberia	2·53	Ditto	42·5
LXXII.	55. Sp. PINITE.	Micarelle	Saxony	2·98	Klaproth	29·5
		.	France	.	Drapier	46.
LXXIII.	56. Sp. DIPYRE.	.	Pyranees	2·63	Vauquelin	60.
LXXIV.	57. Sp. CHIASTOLITE.	Macle	.	.	.	.
LXXV.	58. Sp. SAPPARE.	Cyanite	St. Gothard	3·51	Saussure	29·2
		.	Ditto	.	Struve	51.
		.	Ditto	.	Laugier	38·5
		.	Ditto	3·68	Klaproth	43.
		.	Aschafenburg	.	Ditto	39.
LXXVI.	59. Sp. TREMOLITE.	Fibrous	Edinb. castle	2·92	Kennedy	51·5
		Grammatite	St. Gothard	.	Chenevix	27.
		Ditto	Ditto	.	Klaproth	65.
		Ditto *grey*	Ditto	.	Laugier	50.
		Ditto *white*	Ditto	.	Ditto	35·5
		Ditto	Ditto	.	Ditto	28·4
		Ditto	Ditto	.	Ditto	41.
		Common	.	.	Lowitz	52.
		Baikalite	Siberia	3·20	Ditto	44.
LXXVII.	60. Sp. ASBEST.					
	a. Flexible	Amianth	Dalecarlia	.	Bergman	64.
		Ditto	.	·90	Chenevix	59.
	b. Hard	Asbestus	Tarantais	.	Bergman	64.
		Ditto	Dalecarlia	2·99	Ditto	63·5
	c. Suberiforme	Rockcork	.	.	Ditto	62.
		Ditto	.	.	Ditto	56·2
	d. Ligniforme	Rockwood	Corias	.	Ditto	72.

Y COMPOUNDS.

Alum	Lime	Mag.	Iron	Mang	Alkali	Water	Loss	Other ingred.	Authority
.	.	44·5	19.	.	.	.	.	.	No. 7
.	.	51·5	9·5	.	.	.	2.	.	An. ch. 21
.	.	53.	7·5	.	.	.	.	.	An. ch. 28
.	·25	38·5	12.	.	.	.	.	.	No. 8
.	·12	37·75	10·75	.	.	.	.	.	Ditto
.	.	27.	17.	.	.	.	1.	1. nickel	P. Trans.
38·25	.	.	*	*	.	.	6·5	.	No. 19
38·25	.	.	·75	*	4. P	.	.	.	No. 56
20.	4. F	.	1.	3.	18. P	.	.	.	Tab. com.
31.	8·5	.	·25	.	7. P	.	1·25	.	Thomson
20·61	1·6	.	*	·5	9·16 P	.	1.86	.	Leon. 12
46.	.	5.	9.	.	.	.	.	.	Aikin
35.	1·33	1·35	7.	.	.	.	5·33	.	Lucas
20.	.	.	15·5	1·75	14·5 P	.	.	.	No. 181
34·25	.	·5	4·5	.	8·75 P	1·25	.	.	Ditto
11·5	.	9.	22.	2.	10. F	1.	.	.	Ditto
63·75	.	.	6·25	.	.	.	.	.	Jour. 16
42.	.	.	2·5	.	.	.	9·5	.	Ditto
24.	10.	.	.	.	.	2.	4.	.	Tab. com.
.	.	.	.	.	.	.	.	.	.
55·2	2·05	2.	6·65	.	.	.	4·9	.	Lucas
30.	4.	5.	5.	.	.	.	.	.	Thury 77
55·5	·5	.	2·75	.	.	·75	2.	.	Tab. com.
55·5	.	.	·5	.	* P	.	.	.	No. 170
53.	*	3·5	.	.	.	.	2.	.	Leon. 10
·5	32.	.	·5	.	8·3 S	.	.	5. c. acid	Ed. Trans.
6.	21.	18·5	.	.	.	.	1·5	26. ditto	An. ch. 28
.	18.	10·33	·16	.	.	.	.	6·5 ditto	Tab. com.
.	18.	25.	.	.	.	.	.	5. ditto	Ditto
.	26·5	16·5	.	.	.	.	.	23. ditto	Ditto
.	30·6	18.	.	.	.	.	.	25. ditto	Ditto
.	15.	15·25	.	.	.	.	5·75	23. ditto	Ditto
.	20.	12.	.	.	.	.	4.	12. c. lime	Ditto
.	20.	30.	6.	.	.	.	.	.	Ditto
2·7	13·5 C	17·2 C	2·2	.	.	.	.	.	Thomson
3.	9·5	25.	2·25	.	.	.	1·25	.	Ditto
3·3	6·9 C	13·6 C	1·2	.	.	.	.	6. baryte	Ditto
1·1	12·8	16.	6.	.	.	.	.	.	Ditto
2·8	10. C	22. C	3·2	.	.	.	.	.	Ditto
2.	12·7 C	26·1 C	3.	.	.	.	.	.	Ditto
3·3	10·5 C	12·19 C	1·3	.	.	.	.	.	Ditto

		Trivial Name	Locality	Sp.gr.	Analyst.	Silex
LXXVIII.	61. Sp. TALC.					
	a. Indurated	French chalk	Briançon	.	Vauquelin	61·25
	b. Laminated	Talc laminaire	.	.	Ditto	62.
	c. Massive	Potstone	Chiavena	2·87	Weigleb	38.12
	d. Scaly	.	St. Gothard	3·66	Klaproth	62.
	e. Earthy	Talcite	Merowitz	.	John	60·2
LXXIX.	62. Sp. CHLORITE.					
	a. Cristallised	.	St. Gothard	.	Lampad.	35.
	b. Foliated	White var.	.	.	Vauquelin	56.
		Ditto	.	.	Höpfner	41·15
		Common	.	.	Vauquelin	26.
	c. Earthy	White silvery	.	.	Ditto	56.
		Ditto	.	.	.	50.
		Earthy	.	.	Höpfner	37.
		Sinopis earth	.	.	Klaproth	32.
LXXX.	63. Sp. STEATITE.	Eatable	N. Caledonia	.	Vauquelin	36.
		Speckstein	Baireuth	.	Klaproth	59·5
		Soap rock	Cornwall	.	Ditto	48.
		Ditto	Ditto	.	Ditto	45.
		White steatite	.	.	Chenevix	60.
		Bildstein *red*	China	.	Vauquelin	64.
		Ditto *yellowish*	Ditto	.	Ditto	56.
		Ditto	Ditto	.	John	55.
		Do. *translucid*	Ditto	2·81	Klaproth	54.
		Ditto *opake*	Ditto	2·78	Ditto	62.
		Agalmatholith	Nayag	.	Ditto	55.
		Ditto	China	.	Vauquelin	54·5
		Ditto *red*	Ditto	.	John	51·5
LXXXI.	64. Sp. SERPENTINE.	Precious	.	2·50	John	42·5
		Common	Harzburg	.	Knoch	45.
		Ditto	.	.	Chenevix	26.
		.	.	.	Ditto	28.
		.	Norberg	.	Hisinger	32.
		Redish brown	.	.	John	31·5
LXXXII.	65. Sp. GREEN EARTH	Terre de Ver.	Verona	.	Vauquelin	52.
		.	Ditto	.	Klaproth	53.
		.	Cyprus	.	Ditto	51·5
		.	East Prussia	.	Ditto	51.
LXXXIII.	66. Sp. BOLE.	Tripoli	Ronneberg	.	Bucholz	81.
		Yellow ocre	Pourrain	.	Guillot	65.
		Ditto	Bitry	.	Ditto	92.
LXXXIV.	67. Sp. FULLERS EARTH.	Walkererde	.	.	.	.

† Partly c. aci

COMPOUNDS.

Alum	Lime	Mag.	Iron	Mang.	Alkali	Water	Loss	Other ingred.	Authority
1.	·75	26·25	1.	.	.	6.	3·75	.	An. Ch. 49
1·5	.	27.	3·5	.	.	6.	.	.	Ditto
6·66	·41	34·54	15·05	.	.	.	·84	·41 F. acid	Tab. com.
.	.	30·15	2·5	.	2·75 P	·5	.	.	No. 181
30·83	*	3·55	.	.	.	5.	.	.	An. Ch. 67
18.	29·9	.	9·7	.	.	2·7	4·7	.	Thomson
18.	3.	.	4.	*	8. P	6.	5.	.	An. Ch. 37
6·13	1·5	39·47	10·5	.	.	1·5	·10	.	Journal
15·5	.	8.	43·3	.	2. MP	4.	1·2	.	An. Ch. 29
18.	3.	*	4.	*	8. P	6.	5.	.	Tab. com.
26.	1·5	.	5.	.	17·5	.	.	* M. acid	Ditto
4·1	6·2	43·7	12·8	.	.	.	.	.	Journal
26·5	.	.	21.	.	1·5 MP	17.	.	.	No. 162
.	2.	37.	17.	.	.	4.	6·4	* copper	Journal
.	.	30·5	2·5	.	.	5·5	2.	.	No. 53
14.	.	20·5	1.	.	.	15·5	.	.	No. 54
9·25	.	24·75	1.	.	·75 P	18.	.	.	No. 173
3.	2·5	28·5	2·25	.	.	.	3·73	.	An. Ch. 28
3.	.	22.	5.	*	.	6.	.	.	An. Ch. 49
29.	2.	.	1.	.	7. P	5.	.	.	Ditto
30.	1·75	.	1.	*	6·25 P	5·5	.	.	Annals
36.	.	·75	.	.	.	5·5	.	.	No. 55
24.	1.	·5	.	.	.	10.	.	.	Ditto
33.	.	.	·5	.	7. P	3.	.	.	No. 172
34.	.	.	·75	.	6·25 P	4.	.	.	Ditto
32·5	3.	.	1·75	1·2	6. P	5·13	.	.	Annals
1.	·25	38·63	1·5	·62	.	15·2	.	·25 chrome	Leon. 11
*	6 25 c	33·75 c	14.	.	.	.	.	·75 magnes.	An. Ch. 11
18.	.	8.	43.	.	.	2.	.	2. M. acid	Thomson
25.	·5	34·3	4·5	.	.	10·5	.	.	An. Ch. 28
·5	10·6	37·24	·6	.	.	14·16 †	.	.	Leon. 12
3.	·5	47·25	5·5	1·5	.	10·5	.	.	Ditto
7.	.	6.	23.	.	7·5 P	4.	·5	.	Tab. com.
.	.	2.	28.	.	10. P	6.	.	.	No. 149
.	.	1·5	20·5	.	18. P	8.	1.	.	Ditto
12.	2·5	3·5	17.	.	*	9.	·5	4·5 soda	Ditto
1·5	*	.	8.	.	.	4·55	1·5	3·45 s. acid	Leon. 10
9.	5.	.	20.	.	.	.	.	.	Brong.
2.	3.	.	3.	.	.	.	.	.	Ditto
.	.	.	.	.	.	.	.	.	.

d.

		Trivial Name	Locality	Sp.gr.	Analyst
LXXXV.	68. Sp. LITHOMARGA.	Steinmark	Rochlitz	.	Klaproth
		Cristallised	Flachenseiffen	2·6	Ditto
LXXXVI.	69. Sp. POTTERS CLAY.	Töpferthon	De Dreux	.	Vauquelin
		.	Lemnos	.	Bergman
		.	Osmunde	.	Ditto
		.	Hampshire	.	Ditto
		.	Tournay	.	Hassenfr.
		.	Montcenis	.	Ditto
		.	Neuilly	.	Ditto
		.	Wedgwood	.	Ditto
		.	St. Yrieux	.	Ditto
		Berg mehl	Sta. Fiora	.	Klaproth
LXXXVII.	70. Sp. WHET SLATE.	.	.	.	.
LXXXVIII.	71. Sp. DRAWING SLATE.	Black chalk	Baireuth	.	Weigleb

APPENDIX.

LXXXIX.	1. ADHESIVE SLATE.	Menilite	Menil Mont.	2·08	Klaproth
		.	.	.	Ditto
		.	.	.	Lampad.
		.	.	.	Bucholz
XC.	2. ANDALOUSITE.	.	.	.	.
XCI.	3. CEREOLITE.	.	.	.	.
XCII.	4. CHUSITE.	.	Limbourg	.	.
XCIII	5. DESMINES.	.	.	.	.
XCIV.	6. FIBROLITE.	.	Carnatic	.	Chenevix
		.	China	.	Ditto
XCV.	7. FREISLEBEN.	.	.	.	.
XCVI.	8. IOLITHE.	.	C. de Gattes	2·56	.
XCVII.	9. KEFFEKILITHE.	.	.	.	.
XCVIII.	10. LATIALITE.	Haüyn	Lac Nemi	3·33	Vauquelin
		Ditto	Rome	2·83	Gmelin
XCIX.	11. LIMBELITE.	.	.	.	.
C.	12. MELILITE.	.	.	.	.
CI.	13. PICOLITHE.	.	.	.	.
CII.	14. POLISHING SLATE.	Polier Shiefer	Bellin Bohem.	·6	Bucholz
		Compact	.	2·02	.
		Friable	.	.	.
CIII.	15. SIDERO CLEPT.	.	.	.	.
CIV.	16. SPATH DE GLACE.	.	.	.	.
CV.	17. SPINELLANE.	.	.	.	.
CVI.	18. SPINTHERE.	.	.	.	.
CVII.	19. TABULAR SPAR.	Tafelspath	Dognatska	2·86	Klaproth
CVIII.	20. TRICKLASITE.	.	.	.	.
CIX.	21. TURQUOISE.	.	Persia	3·12	Lagrange
		.	.	.	John

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† Terre Ferrugeneuse.

THY COMPOUNDS.

Silex	Alum	Lime	Mag.	Iron	Mang.	Alkali	Water	Loss	Other ingred.	Authority
45·25	36·5	.	.	2·75	.	* P	14.	.	.	Leon. 13
58.	32.	.	.	2.	.	.	7.	1.	.	Ditto
43·5	33·2	3·5	.	1.	.	.	18.	·8	.	Thomson
47.	19.	5·4 c	6·2 c	5·4	.	.	.	17.	.	An. ch. 14
60.	11·1	5·7 c	·5 c	4·7	.	.	.	18.	.	Ditto
51·8	25.	3·3 c	·7	3·7	.	.	.	15·5	.	Ditto
43.	57.	.	.	.	.	.	.	.	.	Ditto
55.	45.	.	.	.	.	.	.	.	.	Ditto
73.	27.	.	.	.	.	.	.	.	.	Ditto
76.	24.	.	.	.		.	.	.	.	Ditto
70.	30.	.	.	.	.	.	.	.	.	Ditto
79.	5.	.	.	3.	.	.	12.	1.	.	Annals
.	.	.	.	.	.	.	.	.	.	.
64.	11·25	.	.	2·75 †	.	.	7·5	3.	11. carbon.	An. ch. 30
66·5	7.	1·25	1·5	2·5	.	.	19.	2·25	.	No. 51 •
62·5	·5	·25	8.	4	.	.	22.	.	·75 carbon.	No. 156
30·8	.	·8	28.	11·2	.	.	·3	.	27. c. acid	Jour. 18
58.	5.	1·5 c	6·5	9.	*	.	19.	1.	.	Ditto 27
.	.	.	.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.	.	.
38.	52·25	.	.	·75	.	.	.	3.	.	P. Trans.
33.	46.	.	.	13.	.	.	.	8.	.	Ditto
.	.	.	.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.	.	.
30.	15.	5.	.	1.	.	11. P	.	17·5	20. s. lime	Tab. com.
35·48	18·85	2·66	.	1·16	.	15·45 P	1·2	3·45 §	21·73 ditto	Annals
.	.	.	.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.	.	.
79.	1.	1.	.	4.	.	14.	1.	1.	.	Jour. 21
83·5	4.	·5	.	1·5	.	9.	.	.	.	Ditto
87.	·5	·5	.	1·5	.	10.	.	.	.	Ditto
.	.	.	.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.	.	.
50.	.	45.	.	.	5.	.	.	.	.	No. 109
.	.	.	.	.	.	.	.	.	.	.
.	1·5	80. P	2. P	2. P	*	.	6·5	.	8. c. lime	An. ch. 59
.	73.	.	.	4.	.	.	18.	.	4·5 copper	Leon. 12

Partly bit. hydrogene.

		Trivial Name	Locality	Sp.gr.	Analyst	Carbon
CX.	1. Sp. DIAMOND.	Colourless	.	3·52	Lavoisier	.
CXI.	2. Sp. SULPHUR.	.	.	.	.	.
CXII.	3. Sp. AMBER.	.	.	1·08	Baumer	7.
CXIII.	4. Sp. MELLITE.	Honeystone	Thuringia	1·55	Klaproth	.
		.	.	1·66	Vauquelin	.
CXIV.	5. Sp. BITUMEN.					
	a. Liquid	Naphta	.	·80	.	.
	b. Viscid	Mineral tar	.	·85	.	.
	c. Elastic	Cahoutchou	Castleton	.	Klaproth	6·25
		Dapèche	.	.	W. Allen	16.
		Cahoutchou	.	.	Ditto	6.
	d. Solid	Asphaltes	Albania	1·20	Klaproth	30.
		Retin asphalt	Bovey	1·13	Hatchet	.
		Ditto	Halle	.	Bucholz	.
CXV.	6. Sp. COAL.					
	a. Compact	Jet	.	.	.	.
		Canal coal	.	1·23	Kirwan	75.
		Slaty ditto	Ayrshire	1·42	Ditto	47·6
		Ditto	Scotland	.	Mushet	39·43
		Ditto	Derbyshire	1·27	Ditto	48·37
	b. Foliated	Slate coal	Whitehaven	1·25	Kirwan	57.
		.	Wigan	1·26	Ditto	61·43
		.	Newcastle	1·27	Llandaff	58.
		.	Butterly	1·26	Mushet	52·89
		.	Walden	.	Richter	58.
		.	Sultz	.	Ditto	63·33
		.	Beilschovitch	.	Ditto	58·17
		.	Saarbrüch	.	Brandhorn	83·5
		Friable	Roderan	.	Ditto	71·2
		Black shining	Lalaye	.	Ditto	77·6
		Ditto dull	Lopsau	.	Ditto	27·4
		Ditto earthy	Bouxweiler	.	.	19·6
	c. Brown coal	.	Bovey	1·13	Hatchet	45.
		Suturbrand	Iceland	.	Bergman	42 †
		Bitum. wood	Rollo	.	Vauquelin	54. ‡
		Earth coal	Schraplau	.	Klaproth	20·25
		Columnar coal	.	.	.	.
		Moor coal	De la Mothe	1·65	Héricart	65·5
		Earthy coal	.	.	.	.
CXVI.	7. Sp. ANTHRACITE.	Blind coal	Kilkenny	1·52	Kirwan	97·3
		.	Duclos	.	Thury	97·25
		.	N. D. Devaux	.	Ditto	78·5
		.	Tarentais	1·3	Dolomieu	72·05
		.	Schemnitz	.	Panzenbg.	90.
		Slaty	.	.	Ditto	90.
		Conchoidal	Hesse	.	.	96·66
		Slaty	Pyrenees	1·8	Vauquelin	68.
CXVII.	8. Sp. PLUMBAGO.	.	.	2·08	Berthollet	90·9
		.	.	.	Scheele	81.
		Impure	Pluffier	.	Vauquelin	23.
		.	Borrowdale	2·32	Schrader	85·25
		.	Spain	.	Ditto	88·15

† Carbon and earthy matter. ‡ Veg. earth. § Cubic inches.

MMABLE BODIES.

Bit. oil	Elas. fluid	Silex	Alum.	Lime	Iron	Water	Sulph.	Other ingred.	Authority
.	.	.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.	.
72.	.	.	*	.	5.	.	.	4·5 suc. acid	.
.	.	.	16.	.	.	38.	.	46. mel. acid	No. 85
.	.	*	*	*	.	.	.	66·6 ditto	Jameson
.	.	.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.	.
73.	42.	1·5	·25	2.	·75	1·5	.	·5 s. of lime	No. 83
80.	.	.	.	.	.	2.	.	2. carb. hyd.	Lucas
92.	.	.	.	.	.	.	.	2. ditto	Ditto
32.	36.	7·5	4·5	·75	1·25	.	.	·5 mang.	No. 113
41.	.	*	*	.	.	.	.	55. resin	Thomson
9.	.	.	.	.	.	.	.	91. ditto	An. ch. 83
.	.	.	.	.	.	.	.	.	.
21·7	.	.	.	.	.	.	.	3·12 sand	Kirwan
32·5	.	.	.	.	.	.	.	20. ashes	Ditto
.	56·57	.	.	.	.	.	.	4. ditto	Thomson
.	47.	.	.	.	.	.	.	4·63 ditto	Ditto
41·3	.	.	.	.	.	.	.	1·7 ashes	Kirwan
36·7	.	.	.	.	.	.	.	1·57 ditto	Ditto
40.	.	.	.	.	.	.	.	.	Ditto
.	42.83	.	.	.	.	.	.	4·28 ditto	Thomson
36·87	.	.	.	.	1·16	.	.	5 8 earth	Jameson
32·93	.	.	.	.	.	.	.	3·9 ditto	Ditto
37·9	.	.	.	.	.	.	.	3·9 ditto	Ditto
20·3	619. §	1·2	1·8	·11 s	·2	2.	.	.	Jour. 28
6·2	340. §	5.	3·4	.	·6	2.	.	.	Ditto
4·4	542. §	4·3	5·6	·6	·3	3·2	.	.	Ditto
4·8	268. §	8.	1·6	1·4	11·4	22·8	17·9	1·5 mang.	Ditto
17·4	440. §	10·2	10.	.	2·4	14·4	18·4	·5 m. acid	Ditto
.	55.	.	.	.	.	.	.	.	Thomson
.	58.	.	.	.	.	.	.	.	Aikin
.	.	·2	.	·7 s	12·7	.	·8	10·7 s. of iron	Jameson
30.	67·5	.	.	2·5 s	1.	12. ‖	.	14·5 earth	Ditto
.	.	.	.	.	.	.	.	.	,
.	.	5.	6·8	3·25	8.	.	10·5	.	Thury
.	.	.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.	3·7 ashes	Kirwan
.	.	·95	·3	.	1·5	.	.	.	Jour. 16
.	.	4.	6·8	2·25	6·45	.	2. ¶	.	Ditto
.	.	13·19	3·29	.	3·47	.	8. ¶	.	Ditto
.	.	2.	5.	.	3.	.	.	.	Ditto
.	.	4.	4.	.	2.	.	.	.	Aikin
.	.	.	2.	.	1·33	.	.	.	Ditto
.	.	30.	.	.	2.	.	.	.	Tab. com.
.	.	.	.	.	9·1	.	.	.	Lucas
.	.	.	.	.	10.	.	.	9. oxygen	.
.	.	38.	37.	.	2.	.	.	.	Aikin
.	.	3·5	2·3	.	5·8	.	.	3·15 titan.	Annals
.	.	1·5	1·2	.	.	.	.	1·55 ditto +	Ditto

‖ Acidulous water. ¶ Loss. + With ·5 copper.

		Trivial Name	Locality	Sp.gr.	Analyst	Gold
CXVIII.	1. gen. PLATINA.	·	*Native*	15·6	Haüy	·
		·	*Purified*	20·98	Ditto	·
CXIX.	2. gen. GOLD.	·	*Pure*	19·25	Ditto	·
		Brass yellow	Bohemia	·	Lampad.	96·9
		Electrum	Siberia	·	Klaproth	36
		Aurifer. silver	·	10·6	Fordyce	28.
CXX.	3. gen. SILVER.	·	Purified	10·47	Haüy	·
	1. Sp. Native.	Cristallised	Johangeorgen.	·	John	·
	2. Sp. Antimonial.	Spiesglanz	Wolfach	·	Klaproth	·
		Coarsegrained	Ditto	·	Ditto	·
		Massive	Andreasberg	9·82	Ditto	·
		·	Ditto	·	Abich.	·
		·	Ditto	·	Vauquelin	·
	Ferro arsen.	·	Ditto	·	Klaproth	·
		Pacos	Peru	·	Ditto	·
	3. Sp. Sulphurated Antim. Silver.	Red silver ore	Andreasberg	·	Klaproth	·
		·	Freyberg	·	Ditto	·
		·	Andreasberg	·	Ditto	·
		·	·	·	Vauquelin	·
		·	·	·	Thenard	·
		·	·	·	Lampad.	·
		·	Johangeorgen.	·	Ditto	·
		·	·	·	Proust	·
		Sprödglaserz	Freyberg	·	Klaproth	·
	4. Sp. Sulphurated.	Silver glance	Freyberg	·	Ditto	·
		·	Joachimstal	·	Sage	·
		·	Ditto	·	Bergman	·
	5. Sp. Carbonate.	·	Wolfach	·	Selb	·
	6. Sp. Muriate.	Horn silver	Andreasberg	4·8	Klaproth	·
		Ditto	Peru	·	Ditto	·
		Ditto *carthy*	Andreasberg	·	Ditto	·
						Merc.
CXXI.	4. gen. MERCURY.	·	Congealed	15·61	·	·
	1. Sp. Native.	·	·	13·56	Haüy	·
	2. Sp. Argentiferous.	Amalgam	Deuxponts	14·11	Cordier	72·5
		·	Ditto	10.	Klaproth	64.
		·	·	·	Heyer	75.
	3. Sp. Sulphuret.	Cinnabar	Almaden	6·9	Sage	80.
		·	N. Marktel	8·16	Klaproth	85.
		·	Deuxponts	·	Lampad.	81.
		·	Japan	7·71	Klaproth	84·5
		Hepatic	Idria	7·10	Ditto	81·8
	4. Sp. Muriate.	Corneous mer	Obermuschel	·	Bergman	70.
		·	·	·	Ditto	75.
		·	Saxony	·	Klaproth	67·75
		·	Creu Valence	·	Fernandez	9·92
		·	Ditto	·	Ditto	13.

† Concrete s. acid. ‡ With 1.Silex. § With ·25 s. acid. ||

LIC MINERALS.

Silver	Antim.	Sulph.	Iron	Arsenic	Acid	Water	Loss	Other ingred.	Authority
.	.	.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.	.
2.	.	.	1.1	.	.	.	.	.	Jameson
64.	.	.	.	.	.	.	.	.	Thomson
72.	.	.	.	.	.	.	.	.	Ditto
.	.	.	.	.	.	.	.	.	.
99.	1.	.	.	.	.	.	.	.	Leon 12
84.	16.	.	.	.	.	.	.	.	No. 68
76.	24.	.	.	.	.	.	.	.	Ditto
77.	23.	.	.	.	.	.	.	.	No. 91
75·25	24·75	.	.	.	.	.	.	.	Ditto
78.	22.	.	.	.	.	.	.	.	Haüy
12·75	4.	.	44·25	38.	.	.	.	.	No. 9
14.	.	.	71.	.	.	8·5	.	4·5 silex	No. 118
60.	20·3	17·7	.	.	8. †	.	.	.	No. 9
62.	18·5	11.	.	.	8·5 †	.	.	.	Ditto
60.	19.	17.	.	.	.	.	.	4. oxyg.	No. 206
56·67	16·13	15·07	.	.	.	.	.	12·13 ditto	Tab. com.
58.	23 5	16.	.	.	.	.	2·5	.	Ditto
54·27	16·13	17·57	.	.	.	.	.	11·85 ditto	Thomson
61.	19.	11·1	.	·9	7. s	.	.	.	Jameson
58·3 s	33·5 s	.	3.	.	.	3.	.	3. sand	Tab. com
66·5	10.	12.	5.	.	.	.	.	·5 copper ‡	No. 9
85.	.	15.	.	.	.	.	.	.	Ditto
84.	.	16.	.	.	.	.	.	.	Thury
75.	.	25.	.	.	.	.	.	.	Jameson
72.	15·5 c	.	.	.	12. c	.	·5	.	Tab. com.
67·75	.	.	6.	.	21. M	.	.	1·7 alum. §	No. 9
76.	.	.	.	.	16·4 M	.	.	7·6 oxyg.	No. 119
24·64	.	.	.	.	8·28 M	.	.	67·08 alum. ‖	No. 9
Silver	**Copper**	**Sulph.**	**Iron**	**Lime**	**Acid**	**Alum**	**Loss**	**Other ingred.**	
.	.	.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.	.
27·5	.	.	.	.	.	.	.	.	Lucas
36.	.	.	.	.	.	.	.	.	No. 9
25.	.	.	.	.	.	.	.	.	Kidd
.	.	20.	.	.	.	.	.	.	Ditto
.	.	14·25	.	.	.	.	.	.	No. 120
.	.	15·2	4·7	.	.	.	.	.	Jameson
.	.	14·75	.	.	.	.	.	.	No. 120
.	·02	13·57	·2	.	.	·95	·73	2·3 carbon ┼	No. 121
.	.	.	.	.	20. M	.	.	.	Thury
.	.	.	.	.	24.5 M	.	.	.	Ditto
.	.	.	6.	.	21. M	·5	4·25	·25 lime ‖‖	An. ch. 6
·08	18·76	16.	8·25	26·5 c	.	3·5	8·01	9. unknown	An.ch. 28
·08	21.	18·5	4·5	25·25 c	.	3.	5·75	9. ditto	Ditto

With a trace of copper.　　┼ With ·65 silex.　　‖‖ With 0·25 s. acid.

		Trivial Name	Locality	Sp.gr.	Analyst	Lead
CXXII.	5. GENUS, LEAD.					
	1 SP. NATIVE.	.	.	.	.	.
	2. SP. SULPHURET.	Galena	Durham	.	Thomson	85·13
		.	Louisiana	7· 5	Meade	72.
		.	Kirschwald	6·82	Vauquelin	54.
		.	Kampfstein	7·1	Ditto	69.
		.	Ecklesberg	7·4	Ditto	68·69
		.	Kantenbach	6·14	Ditto	64.
		Ditto quartzy	Savoy	3·56	Klaproth	9.
		.	Andreasberg	.	Ditto	34·5
		.	Cornwall	.	Ditto	39.
		Lt. w. sil. ore	Freyberg	.	Ditto	48·06
		Dark ditto	Ditto	.	Ditto	41.
	3. SP. OXIDE.	.	.	.	.	.
	4. SP. CARBONATE.	White lead ore	Zillerfeld	.	Westrumb	81·2
		.	Wanlockhead	6·48	Klaproth	77.
		.	Ildekanskoi	.	Bindheim	77·5
		.	Ditto	.	Ditto	74.
		.	Ditto	.	John	69·5
		.	Taininskoi	6·50	Ditto	78·5
		.	Siberia	.	Macquart	67.
		Comp.	Tainowitz	.	John	60.
		Black lead ore	.	.	Lampad.	78·5
	5. SP. PHOSPHATE.	Green lead ore	Erlbach	6·07	Fourcroy	79.
		.	Zschopau	6·27	Klaproth	78·4
		.	Brisgaw	.	Ditto	77·1
		.	Erlbach	.	Vauquelin	45·18
		Brown var.	Brittany	.	Klaproth	78·58
		Yellow ditto	Wanlockhead	6·56	Ditto	80.
		.	Johangeorgen.	.	Laugier	76·9
		.	Auvergne	6 75	Klaproth	76.
		.	Johangeorgen.	.	Rose	77·5
		.	Rosiers	6·84	Fourcroy	50.
	6. SP. ARSENIATE.	.	Johangeorgen.	7·26	Rose	73·13
		.	Cornwall	.	Gregor	69·76
		.	Nertschink	6·04	Bindheim	35.
	7. SP. CHROMATE.	Red lead spar	Ditto	5·75	Vauquelin	63·96
		.	Ditto	.	Ditto	65·1
		.	Ditto	.	Thenard	64.
		Brown var.	Mexico	.	Descostils	74·2
	8. SP. MOLYBDATE.	Yellow lead ore	Carinthia	5·09	Klaproth	64·42
		.	Ditto	.	Hatchett	58·4
		.	Ditto	5·48	Macquart	58·75
	9. SP. SULPHATE.	.	Anglesey	6·3	Klaproth	71.
		.	Wanlockhead	.	Ditto	70·5
	10. SP. MURIATE.	.	Derbyshire	.	Ditto	55.
		Murio carb.	Ditto	6·06	Ditto	85·5
		.	Ditto	.	Chenevix	85.

† With 2·25 silver. ‡ With 1·75 m. acid. §

LLIC MINERALS.

Sulph.	Acid	Antim.	Iron	Silex	Alum	Water	Loss	Other ingred.	Authority
.	.	.	.	.	.	.	.	.	.
13·2	.	.	.	.	.	.	5.	.	Jameson
24.	.	•	*	4.	.	.	.	* silver	Am. Jour.
8.	.	.	.	.	.	.	.	38. sil. & lime	Jameson
16.	.	.	.	.	.	.	.	15. ditto	Ditto
16·18	.	.	.	.	.	.	.	16·13 ditto	Ditto
18.	.	.	.	.	.	.	.	16. ditto	Ditto
8.	.	.	7.	63.	6.	.	.	3. copper	Leon. 13
13·5	.	16.	13·75	2·5	.	.	1·25	16·25 ditto †	No. 128
16.	.	28·5	1.	.	.	.	2.	13·5 ditto	Ditto
12·25	.	7·88	2·25	1·25	7.	.	1.91	20·4 silver	No. 9
22.	.	21.	1.75	·75	1.	.	2·75	9·25 ditto	Ditto
.	.	.	.	.	.	.	.	.	.
.	16. c	.	3.	.	.	.	1·6	·9 lime	Thomson
.	16. c	.	.	.	.	.	2.	5. oxyg.	No. 89
.	15. c	.	1·25	.	·5	.	.	.	Jameson
.	15. c	.	·25	.25	1.	4.	.	1. lime	Ditto
4·84	15. c	.	.	8.	2·66	.	.	.	Leon. 12
6.	15·5 c	.	.	.	.	.	.	.	Ditto
.	24. c	.	.	.	.	.	3.	6. oxyg.	Jameson
.	12. c	.	1·25	10·5	4·75	2·5	.	1. mang.	Leon.
.	18. c	.	.	.	.	2.	.	1·5 c. coal	Thomson
.	18. P	.	1.	.	.	2.	.	.	An. ch. 2
.	18·37 P	.	1.	.	.	.	.	1·7 m. acid	No. 87
.	19. P	.	·1	.	.	.	.	1·54 ditto	Ditto
.	18·17 P	.	.	32.	.	.	.	4·05 oxyg.	Thomson
.	19·73 P	.	.	.	.	.	.	1·65 m. acid	No. 187
.	18. P	.	.	.	.	.	.	1·6 ditto	Ditto
.	9. P	.	*	*	*	7.	1·7	4. ar. acid	Tab. com.
.	13. P	.	.	.	.	5.	.	7. ditto ‡	No. 207
.	7·5 P		.	.	.	.	1.	12·5 ditto §	Tab. com.
.	14. P	.	.	.	.	3.	.	29. do. oxide	An. ch. 2
.	19·05 A	.	·25	.	.	.	1·7	4·37 oxyg.	Lucas
.	26·4 A	.	.	.	.	.	.	1·5 m. acid	Phil. Mag
.	25. A	.	14.	.	.	.	.	‖	Lucas
.	36·4 ch	.	.	.	.	.	.	.	Tab. com.
.	34·9 ch	.	.	.	.	.	.	.	Thomson
.	36. ch	.	.	.	.	.	.	.	Ditto
.	16. ch	.	3·5	.	.	.	4·8	1·5 m. acid	An. ch. 53
.	34·25 MO	11.	.	.	.	.	.	.	No. 63
.	38. MO	.	.	.	.	.	.	.	P. Trans.
.	28. MO	.	.	4.	.	.	.	.	Journal
.	24·8 S	.	1.	.	.	2.	.	.	No. 88.
.	25·75 S	.	.	.	.	2·25	.	.	Ditto
.	45. M	.	.	.	.	.	.	.	Thury
.	8·5 M	.	.	.	.	*	.	6. c. acid	No. 86.
.	8. M	.	.	.	.	.	1.	6. ditto	Thomson

With 1·5 m. acid.

‖ With some silver & earthy mat.

		Trivial Name	Locality	Sp. gr.	Analyst	Nickel
CXXIII.	6. genus, NICKEL.					
	1. Sp. Native.	Capill. pyrites	.	.	.	.
	2 Sp. Arsenical.	Kupfer nickel	.	6·64	.	.
	3. Sp. Oxide.	Nickel ochre	.	.	Lampad.	67.
	4. Sp. Antimonial.	.	Nassau	.	Klaproth	25·25
						Copper
CXXIV.	7. genus, COPPER.					
	1. Sp. Native.	.	Siberia	8·58	John	99·75
	2. Sp. Black Sulph.	Copper glance	Cornwall	.	Chenevix	84.
		Ditto	Nova Scotia	.	Thomson	73.
		Ditto	Siberia	.	Klaproth	78·5
		Kupferglanz.	Rothenberg	4·86	Ditto	76·5
		Bunt Kupfer.	Hitterdahl	.	Ditto	69.
		Ditto	Rudelstadt	.	Ditto	58.
		Ditto	Siberia	.	Gueniveau	74·5
		Ditto	Ditto	.	Ditto	47.
	3. Sp. Yellow Sulph.	Copper pyrites	Cornwall	.	Chenevix	30.
		Ditto	Sainbel	4·16	Gueniveau	30.
		Ditto	Ditto	.	Ditto	30·5
		Ditto	Baigorie	.	Ditto	27.
		Ditto	Ditto	.	Ditto	28.
		Ditto	.	.	Lampad.	41.
		Ditto	.	.	Sage	40.
	4. Sp. Grey Sulph.	Fahlerz	Airthrie	4·87	Thomson	19·2
		Ditto	Freyberg	.	Klaproth	41.
		Ditto	Ditto	.	Ditto	48.
		Ditto	Ditto	.	Ditto	42·5
		Ditto	Andreasberg	.	Ditto	16·25
		Ditto	Piémont	.	Napione	29·3
		Grey silver ore	Kremnitz	.	Klaproth	31·36
		Black ditto	Kapnick	.	Ditto	37·75
		Ditto	Poratch	.	Ditto	39.
		Ditto	Anaberg	.	Ditto	40·25
		Ditto	Zilla	.	Ditto	37·5
		Ditto	Wolfach	.	Ditto	25.5
		Ditto	Peru	3·91	Ditto	27.
	5. Sp. Oxide.	Ruby copper	Cornwall	3·88	Chenevix	85·5
		Ditto foliated	Siberia	.	Klaproth	91.
		Ditto	Catherineburg	6.	John	99.
		Ditto compact	Ditto	6.	Ditto	99·5
						Copper
	6. Sp. Blue Carbon.	Copper azure	Siberia	.	Klaproth	56.
		.	Ditto	.	Pelletier	68.
		.	.	.	Fontana	66.
		cristallised	Chessy	.	Vauquelin	56.

LLIC MINERALS.

Iron	Antim.	Arsen.	Sulph.			Water	Loss	Other ingred.	Authority
.	.	.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.	.
23·2	.	.	.	.	.	1·5	8·3	.	Thomson
.	47·75	11.75	15·25	.	.	.	.	.	Aikin
Iron	Sulph.	Arsen.	Silver	Antim.	Zinc	Silex	Loss		
·12	.	.	.	.	.	.	.	* gold	Leon. 12.
4.	12.	.	.	.	.	.	.	.	P. Trans.
1.	24·5	.	.	.	.	1·8	·22	.	Thomson
2·25	18·5	.	.	.	.	·75	.	.	No. 64
·5	22.	.	.	.	.	.	1.	.	No. 125
7·5	19.	.	.	.	.	.	.	4. oxyg.	No. 65
18.	19.	.	.	.	.	.	.	5. ditto	Ditto
1·5	20·5	.	.	.	.	.	3·5	.	Jour. 21
9·3	13.	.	.	.	.	25.	.	7. lime	Ditto
53.	12.	.	.	.	.	5.	.	.	P. Trans.
31.	36·5	.	.	.	1.	1.	·5	.	Jour. 21
33.	35.	.	.	.	*	1.	1·5	.	Ditto
30.	31·5	.	.	.	1.	.	.	8·5 residue	Ditto
29.	31·5	.	.	.	.	.	.	9. ditto	Ditto
17·1	45·1	.	.	.	.	.	.	.	Jameson
40.	20.	.	.	.	.	.	.	.	Ditto
51.	14·1	15·7	.	.	.	.	.	.	Ed. Trans.
22·5	10.	24·1	·4	.	.	.	2.	.	No. 126
25·5	10.	14.	·5	.	.	.	2.	.	Ditto
27·5	10.	15·6	·9	1·5	.	.	2.	.	Ditto
13·75	10.	.	2·25	16·	.	2·5	4·75	34·5 lead	Jameson
12·1	12·7	4.	·7	36·9	.	.	3·2	1·1 alum.	Ditto
3·3	11·5	.	14·75	34·09	.	.	4·68	·3 ditto	No. 9
3·25	28.	.	·25	22.	5.	.	3·75	.	No. 127
7·5	26.	.	.	19·5	.	.	1·75	6·25 merc.	Ditto
13·5	18·5	·75	·3	23.	.	.	3·7	.	Ditto
6·5	21·5	.	3.	29.	.	.	2·5	.	Ditto
7.	25·5	.	13·25	27.	.	.	1·75	.	Ditto
7.	27·75	.	10·25	23·5	.	.	2·75	1·75 lead	Ditto
.	.	.	.	.	.	.	.	11·5 oxyg.	P. Trans.
9.	.	.	.	.	.	.	.	.	No. 122
·25	.	.	.	.	.	.	.	·75 water	Leon. 12
·25	.	.	.	.	.	.	.	·25 ditto	Ditto
Acid	Oxyg.					Water	Loss		
24. c	14.	.	.	.	.	6.	.	.	No. 123.
19. c	9.	.	.	.	.	2.	.	.	Tab. com.
20. c	10.	.	.	.	.	2.	.	.	Thury
25. c	12·5	.	.	.	.	6·5	.	.	Journal

		Trivial Name	Locality	Sp.gr.	Analyst	Copper
CXXIV.	7. GENUS, COPPER.					
	7. SP. GREEN CARBON.	Fibrous	Chessy	.	Vauquelin	56·1
		.	Siberia	.	Klaproth	58.
		.	Arragon	.	Proust	56·8
		.	China	3·57	Fontana	75.
		Copper green	Siberia	2·5	John	12.
		Chrysocolle	Ditto	.	Klaproth	40.
		Dioptase	Ditto	3·3	Vauquelin	28·57
		Ditto	Ditto	.	Lowitz	55.
	8. SP. MURIATE.	Copper sand	Peru	.	Berthollet	52.
		.	Ditto	.	Proust	70·5
		.	Ditto	.	Ditto	46·8
		.	Chili	.	Ditto	76·5
		.	Ditto	.	Ditto	57·4
		.	Ditto	.	Klaproth	73.
	9. SP. PHOSPHATE.	.	Firneberg	.	Ditto	68·13
	10. SP. ARSENIATE.	Obtuse octoh.	Cornwall	2·88	Chenevix	49.
		Acute ditto	Ditto	4·28	Ditto	60.
		Lamellated	Ditto	2·54	Ditto	58.
		Ditto	Ditto	.	Vauquelin	39.
		Prismatic	Ditto	4·28	Chenevix	54.
		Capillary	Ditto	.	Ditto	51.
		Acicular	Ditto	.	Klaproth	50·62
		Ditto	Ditto	.	Vauquelin	69.
		Hematitiform	Ditto	.	Chenevix	50.
		Artificial	.	.	Ditto	50.
		Ditto	.	.	Ditto	35.
					.	Iron
CXXV.	8. GENUS, IRON.					
		.	Forged	7·78	.	.
		.	Melted	7·2	.	.
		Red oxide	.	.	Thomson	69.
		Black ditto	.	.	Ditto	78·5
	1. SP. NATIVE.	Tellure eisen	Kamsdorf	.	Klaproth	92·5
		Native steel	La Bouiche	7·74	St Memin	94.
		Meteoric iron	See CXLI.			
	2. SP. MAGNETIC.	Titaniferous	Aberdeenshire	4·76	Thomson	98·7
		Do. less excess	.	.	.	85·3
		Ditto	Puy en Valais	.	Cordier	82.
		.	Neidermenich	.	Ditto	79.
		.	Saint Quay	.	Descostils	86.
		.	Teneriffe	.	Cordier	79.
	3. SP. SPECULAR.	.	Grengesberget	.	Hisinger	94·38
		.	.	.	Brochi	88.
		Vol. eisenglass	Vesuvius	3·88	Klaproth	66.

‡ With 1. phos.

§ 14. excess.

LIC MINERALS.

Acid	Oxyg.	Sulph.	Silex	Alum	Lime	Water	Loss	Other ingred.	Authority
21·25 c	14.	.	.	.	.	8·65	.	.	Journal
18. c	12·5	.	.	.	.	11·5	.	.	No. 66
27. c	14·2	.	1.	.	1.	.	.	.	Journal
19·4 c	.	.	.	.	.	5·6	.	.	Kirwan
3. c	.	7·63	28·37	.	1·5 s	17·5	.	.	Leon 12
7. c	10.	.	26.	.	.	12.	.	.	No. 124
18·67 c	.	.	28·57	.	24·18	.	.	.	Tab. com.
.	.	.	33.	.	.	12.	.	.	Lucas
10. M	11.	.	11.	.	.	12.	.	1. c. iron	Tab. com
11·4 M	.	.	.	.	.	18·1	.	.	Ditto
9·5 M	11·5	.	17.	.	.	15.	.	.	Thury
10·6 M	.	.	.	.	.	12·7	2.	.	Tab. com.
10. M	14·6	.	.	.	4.	12.	.	2. iron	Thury
10·1 M	.	.	.	.	.	16·9	.	.	No. 95
30·95 P	.	.	.	.	.	.	.	.	No. 96
14. A	.	.	.	.	.	35.	2.	.	P. Trans.
39·7 A	.	.	.	.	.	.	·3	.	Ditto
21. A	.	.	.	.	.	21.	.	.	Ditto
43. A	.	.	.	.	.	17.	1.	.	Tab. com.
30. A		.	.	.	.	16.	.	.	P. Trans.
29. A	.	.	.	.	.	18.	2.	.	Ditto
45. A	.	.	.	.	.	3·3	·88	.	No. 94
31. A	.	.	.	.	.	.	.	.	Tab. com.
29. A	.	.	.	.	.	21.	.	.	P. Trans.
27. A	.	.	.	.	.	22.	.	.	Ditto
39·5 A	.	.	.	.	.	24.	.	.	Ditto
Oxyg.	**Titan.**	**Mang.**	**Copper**	**Silex**	**Alum**	**Lime**	**Loss**		
.	.	.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.	.
31.	.	.	.	.	.	.	.	.	Thomson
21·5	.	.	.	.	.	.	.	.	Ditto
.	.	.	1·5	.	.	.	.	6. lead	No. 130
.	.	.	.	.	.	.	.	4. carbon ‡	Journal
.	12·65	.	.	1·5	.	.	.	1. arsenic §	Ed. Trans.
.	9·5	.	.	1·5	.	.	2·7	1. ditto	Ditto
.	12·6	4·5	.	.	.	.	3.	. chrome	Journal
.	15·9	2·6	.	.	1.	.	.	.	Ditto
.	8.	2.	.	.	.	.	.	. ditto	Ditto
.	14·8	1·6	.	.	·8	.	.	.	Ditto
.	.	.	.	.	.	2·75 P	.	1. bitum. ‖	Leon. 12
.	.	·75	.	·5	.	.	2·33	8·5 s. iron †	.
.	.	.	.	29·5	4.	.	.	·25 soda	No. 131

‖ With a trace of mag. † With 8. s. acid.

		Trivial Name	Locality	Sp.gr.	Analyst	Iron
CXXV.	8. GENUS, IRON.					
	4. Sp. Sulphuret.	Iron pyrites	Dodecahedron	.	Hatchet	47·85
		.	Cube, striated	.	Ditto	47·5
		.	Ditto, smooth	.	Ditto	47·3
		.	Radiated	.	Ditto	46·4
		.	Ditto	.	Ditto	45·66
		.	Magnetic	4·51	Ditto	63·5
		.	Cube	.	Bucholz	44·85
		.	Radiated	.	Ditto	48·29
		.	.	.	Proust	47·36
		.	.	.	Gueniveau	52·76
		.	.	.	Ditto	53·69
	5. Sp. Oxide.	Cris. in cubes	Toeschnitz	.	Bucholz	70.
	Compact	Red Hematite	.	48·9	Lampad.	65·4
		Ditto	Ardèche	4·3	Descostils	92·
		Ditto	Ditto	4·9	Ditto	85.
		Ditto	Framont	4·8	Daubuison	90.
		Ditto	Ditto	5.	Ditto	94.
	Soft	Ditto	Ardèche	4·1	Descostils	40·2
		Red iron froth	.	.	Henry	66.
		Brown hemat.	Bergzabern	3·8	Daubuison	79.
		Ditto	Ditto	.	Calmelet	78.
		Ditto	Vicdessos	3·9	Daubuison	82.
	Compact	Ditto	Bergzabern	.	Ditto	84.
		Ditto	Ditto	.	Ditto	64.
		Ditto	Pyranees	.	Ditto	81.
		Ditto	Vicdessos	3·4	Ditto	81.
		Ditto	Voigtsberg	.	Ditto	69.
		Black hemat.	Bas Rhin	3·2	Vauquelin	80·25
		Ditto	Freyberg	2·4	Klaproth	67.
		Grey ore	Deuxponts	.	Drapier	59.
		Prismatic	Odelo	.	Brochi	50.
		Lenticular	Doubs	.	Daubuison	73.
		Ditto	Radnitz	6·67	Lampad.	64.
		Ditto	Colebrookdale	.	Descostils	50.
		.	Blancheland	.	Ditto	54.
		.	Gieslautern	.	Ditto	38·6
		.	Ditto	.	Ditto	40.
		.	Haute Loire	.	Berthier	51.
		.	Du Garde	.	Boulanger	57·3
		Œitte	Dep. deL'orme	3·3	Daubuison	78.
		Pea ore	Hogau	.	Klaproth	53.
		.	Penné	5·2	Vauquelin	30.
		Com. iron stone	Brandau	.	Lampad.	35.
		.	Ditto	.	Ditto	39.
		Umber	Cyprus	.	Klaproth	48.
		Yellow ocre	Elba	.	Daubuison	83.
		Bog ore	Klempnow	.	Klaproth	66.
		.	Lusace	.	Daubuison	61.

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† With 8. s. acid.

‡ With ·5 bitumen.

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IC MINERALS.

Sulph.	Oxyg.	Mang.	Silex	Alum	Lime	Mag.	Loss	Other ingred.	Authority
52·15	.	.	.	.	.	.	.	.	P. Trans.
52.	.	.	.	.	.	.	.	.	Ditto
52·7	.	.	.	.	.	.	.	.	Ditto
53·6	.	.	.	.	.	.	.	.	Ditto
54·34	.	.	.	.	.	.	.	.	Ditto
36·5	.	.	.	.	.	.	.	.	Ditto
51·15	.	.	4.	.	.	.	.	.	An. ch. 68
49·61	.	.	2.	.	.	.	.	.	Ditto
52·64	.	.	.	.	.	.	.	.	Ditto
47·2	.	.	.	.	.	.	.	.	Ditto
46·31	.	.	.	.	.	.	.	.	Ditto
.	29.	.	.	.	.	.	.	.	Journal
.	.	2·7	10·7	9·3	.	.	.	.	Jameson
.	.	1·2	2·4	.	2·	*	·8	1·6 calcin.	Journal
.	.	2.	8.	·8	.	.	1·2	3. ditto	Ditto
.	.	*	2.	.	1.	.	4.	3. ditto	Ditto
.	.	*	2.	.	*	.	2.	2. ditto	Ditto
.	.	2·5	11.	.	23.	.	.	20·2 ditto	Ditto
.	28·5	.	4·5	1·25	.	.	.	.	Thomson
.	.	2.	3.	.	.	.	1.	15. calcin.	Journal
.	.	7.	11.	.	.	.	4.	.	Ditto
.	.	2.	1.	*	.	.	1.	14. calcin.	Ditto
.	.	1.	2.	.	.	.	2.	11. ditto	Ditto
.	.	8.	25.	.	.	.	3.	.	Ditto
.	.	*	2.	*	*	.	6.	11. calcin.	Ditto
.	.	.	4.	.	.	.	4.	12. ditto	Ditto
.	.	3.	10.	3.	*	.	·2.	13. ditto	Ditto
.	.	.	3·75	.	.	.	1.	15. water	.
.	.	.	.	.	.	.	.	25. ditto †	No. 311
.	.	2·4	9·4	·6	·2	.	.	29·5 calcin,	An. ch. 84
.	.	.	30·5	7.	.	.	2·5	13. water	Leon. 13
.	.	1.	9.	.	*	.	3.	14. calcin.	Journal
.	.	.	7·5	23.	.	.	·5	5. water	Thomson
.	.	2·6	10·6	2.	1·6	2·4	.	32. calcin.	An. ch. 84
*	.	2·4	13.	1.	4·2	2.	.	24·6 ditto	Ditto
.	.	1·8	32.	4.	1·8	4·3	.	20. ditto	Ditto
.	.	1·6	19.	3·4	2·8	4.	.	32. ditto	Ditto
.	.	1·5	9.	7.	1.	*	1.	29. ditto ‡	Ditto
.	.	1·4	5·2	1·2	1·8	3·6	.	31. ditto §	Ditto
.	.	*	7.	1.	*	.	1.	13. ditto	Journal
.	.	1.	23.	6·5	.	.	.	14·5 water	No. 134
.	18.	.	15.	31.	.	.	.	6. ditto	Thomson
3.	.	.	11.	39.	.	2.	.	10. ditto	Ditto
1.	.	.	5.	40.	.	1.	.	9. ditto	Ditto
.	.	20.	13.	5.	.	.	.	14. ditto	No. 85
.	.	*	5.	*	.	.	.	12. calcin.	Journal
.	.	1·5	.	.	.	.	.	23. water ‖	No. 133
.	.	7.	6	2.	*	.	2.	19. calcin.	Journal

With 1·6 carbon.

‖ With 8. phosphorus.

CXXV.

	Trivial Name	Locality	Sp.gr.	Analyst	Iron
8. genus, IRON.					
6. Sp. Carbonate.	White	Allevard	.	Bergman	25.
	Brown	Ditto	.	Ditto	38.
	Ditto	Ditto	.	Ditto	22.
	Black iron sp.	.	.	Ditto	62.
	Ditto	.	.	Berthier	57.
	Ditto, fibrous	Cantal	.	Ditto	59.
	White	Ditto	3·65	Ditto	49.
	Grey	Ditto	3·82	Ditto	52.
	Dark red	Grenoble	3·71	Ditto	50.
	White	Vizilles	.	Ditto	50.
	Yellowish grey	Baigorie	3·76	Ditto	60.
	Light coloured	Ditto	3·82	Ditto	61·5
	Opake brown	St Agnes, Isere	3·73	Ditto	59.
	Black *decomp.*	Ditto	.	Ditto	81.
	Ditto	Rancie	.	Ditto	80.
	Ditto	Biscay	4·02	Ditto	86.
	White	Saxony	3·6	Ditto	52.
	.	Vaunaveys	3·6	Ditto	49.
	Dark brown	Crotz	3·63	Ditto	57.
	Brown *decomp.*	Carinthia	.	Ditto	72.
	.	Siberia	.	Ditto	82.
	Brown spar	Baireuth	3·33	Bucholz	59·5
	.	Harzgerode	.	Ditto	55.
	.	Baireuth	.	Klaproth	58.
	.	Dankerode	.	Ditto	57·5
	Fibrous	Steinheim	.	Ditto	63·75
	.	Bovano	.	Brochi	54·5
	.	Ditto	.	Ditto	57·54
	.	Ditto	.	Ditto	67.
	.	Ditto	.	Ditto	17.
	Com.cl. iron st.	.	.	Richter	35·5
	Ditto	.	.	Ditto	42·5
	Ditto	.	.	Ditto	39·1
	Ditto	.	.	Ditto	33·9
	Ditto	.	.	Ditto	20·1
7. Sp. Phosphate.	Laminated	Isle de France	2·6	Laugier	41·25
	.	.	.	Cadet	41·1
	.	Alleyras	.	Berthier	43.
	Manganesian	Limoges	3·65	Vauquelin	31.
	Earthy	Ekartsberg	.	Klaproth	47·2
8. Sp. Arseniate.	Cube ore	Cornwall	3.	Chenevix	45·5
	.	Ditto	.	Vauquelin	48.
	Cupreous	Ditto	.	Chenevix	27·5
9. Sp. Chromate.	.	Gassin	4·03	Tassaert	36.
	.	France	4·03	Vauquelin	34·7
	.	Siberia	.	Laugier	34.
	.	Kreiglach	4·5	Klaproth	33·6
10. Sp. Muriate.	.	.	.	.	.

† With c

ALLIC MINERALS.

Acid	Mang.	Silex	Alum	Lime	Mag.	Water	Loss	Other ingred.	Authority
6·8 c	4·5	.	.	48. c	7.	17·2	.	3. s. iron	Journal
.	24. c	.	.	38. c	.	.	.	.	Thomson
.	28. c	.	.	50. c	.	.	.	.	Ditto
16·9 c	.	.	.	5.	.	16·1	.	.	Journal
35. c	1·5	.	.	*	5·5	.	1.	.	Ditto
33. c	.	1·6	*	·04	4.	.	.	·2 coal	Ditto
36·5 c	·5	2.	.	*	11.	.	1.	.	Ditto
34·5 c	12.	1.	.	*	2·8	.	.	.	Ditto
37·5 c	1.	.	.	·5	11.	.	.	.	Ditto
37. c	2.	.	.	·8	10.	.	2.	.	Ditto
37. c	1·5	.	.	*	4.	.	.	.	Ditto
34. c	·5	1.	.	*	3·8	.	.	.	Ditto
34. c	1·5	.	.	*	5·6	.	.	.	Ditto
13. c	2.	1·5	.	1.	*	.	1·5	.	Ditto
8·5 c	6.	2·5	.	·5	.	.	2·5	-	Ditto
7. c	2.	3.	.	.	.	.	2.	.	Ditto
37. c	2.	.	.	*	12·6	.	.	.	Ditto
37·5 c	1·5	.	.	·3	12·5	.	.	.	Klaproth
33. c	6.	.	.	*	4.	.	.	.	Journal
21. c	6.	.	.	1.	*	.	.	.	Ditto
13. c	1.	2.	.	1.	*	.	.	.	Ditto
36. c	.	.	.	2·5	.	2·5	.	.	Ditto
35. c	10.	.	.	.	.	.	.	.	Ditto
35. c	4·5	.	.	·5	·75	.	1·5	.	No. 131
36. c	3·5	.	.	1·35	.	.	.	.	Ditto
34. c	·75	.	.	.	·25	.	1·25	.	Leon. 13
33·25 †	4·25	·75	2.	·38	1·25	.	3·37	·25 zinc	Ditto
32·38 †	6.	·25	.	·25	1.	.	3·87	.	Ditto
19. †	3·75	·25	2·25	5.	1·25	.	3·75	·25 zinc	Ditto
36. †	18.	·5	,	27.	1·5	.	.	.	Ditto
28·1 c	1·5	14·3	22·6	.	.	.	.	-	Thomson
27·1 c	3.	13·8	13·6	.	.	.	.	.	Ditto
32·1 c	1·1	11·9	15·8	.	.	.	.	.	Ditto
28·1 c	1·1	23·9	13.	.	.	.	.	.	Ditto
28·8 c	1.	19·9	30·2	.	.	.	.	.	Ditto
19·25 P	.	1·25	5.	.	.	31·25	.	.	Tab. com.
36·9 P	.	3.	5·8	9·1	.	13·1	.	.	Journal
23·1 P	·3	*	*	.	.	34·4	.	.	Ditto
27. P	42.	.	.	.	.	.	.	.	An. ch. 41
32. P	.	.	.	.	.	20.	.	.	No. 132.
31. A	.	4.	.	.	.	10·5	.	9. copper	P. Trans.
18. A	.	.	.	2.	.	32.	.	.	Tab. com.
33. A	.	3.	.	.	.	12.	1·5	22·5 copper	Thomson
63·6 ch	.	.	.	.	.	.	·4	.	An. ch. 31
43. ch	.	2.	20·3	.	.	.	.	.	Tab. com.
53. ch	.	1.	11.	.	.	.	1.	.	An. ch. 78
55·5 ch	.	2.	6.	.	.	.	3·5	.	Ditto 64
.	.	.	.	.	.	.	.	.	.

acid and water.

		Trivial Name	Locality	Sp.gr.	Analyst	Tin
CXXVI.	9. GENUS, TIN.	.	Purified	7·29	Haüy	.
	1. SP. OXIDE.	Tinstone	Cornwall	6·95	Klaproth	77·5
		.	Schlackenwald	6·76	Ditto	75.
		.	Ehrenfreiders.	.	Lampad.	68.
		.	Goanaxuato	5 06	Descostils	66.
		Wood tin	Cornwall	6·45	Vauquelin	91.
		.	Ditto	.	John	94·5
	2. SULPHURET.	Bell metal ore	St Agnes	.	Klaproth	26·5
		.	Ditto	.	Ditto	34.
						Zinc
CXXVII.	10. GENUS, ZINC.					
		.	Purified	7·19	Haüy	.
	1. SP. OXIDE.	Red	New Jersey	.	Bruce	76.
		Calamine	.	.	Bergman	84.
		.	Wanlockhead	.	Klaproth	66.
		.	Freyberg	.	Pelletier	38.
		.	Regbania	.	Smithson	68.
		.	Limbourg	.	Bonesuel	88·9
	2. SP. SULPHURET.	Blend, yellow	Scharfenberg	.	Bergman	64.
		Ditto	Brisgau	3·63	Hecht	62.
		Ditto, brown	Sahlberg	.	Bergman	44.
		Ditto	Alston Moor	.	Thomson	58·8
		Ditto	Cornwall	4·04	Ditto	58·64
		Ditto, black	Dannemore	.	Bergman	45.
		Ditto	Bowallon	.	Ditto	52.
		Ditto	.	.	Lampad.	53.
	3. SP. CARBONATE.	.	Altai, Siberia	.	John	50.
		.	Bleyberg	.	Smithson	71·4
		.	Mendip	.	Ditto	64·8
		.	Derbyshire	.	Ditto	65·2
		.	Holywell	.	Ditto	69.
						Bism.
CXXVIII.	11. GENUS, BISMUTH.					
		.	Purified	9·82	.	.
	1. SP. NATIVE.	.	Hungary	9·02	Klaproth	95.
	2. SP. SULPHURET.	Bism. glance	.	.	Sage	60.
	Cupreous	.	Wittichen	.	Klaproth	47·24
	Argentiferous	.	Schatzlach	.	Ditto	27.
		Needle ore	Siberia	6·12	John	43·2
	3. SP. OXIDE.	Bism. ochre	.	4·37	Lampad.	86·3
	4. SP. CARBONATE.	.	.	.	.	.

† With 1. arsenic.

IC MINERALS.

Oxyg.	Sulph.	Iron	Copper	Mang.	Silex	Alum	Loss	Other ingred.		Authority
.	.	.	.	.	.	.	.	.		.
21·5	.	·25	.	.	·75	.	.	.		No. 61
23·75	.	·5	.	.	·75	.	.	.		Thomson
16.	.	9.	.	.	7.	.	.	.		Jameson
29.	.	5.	.	.	.	.	.	.		An. ch. 53
.	.	9.	.	.	.	.	.	.		Thomson
.	.	1.	.	·5	1.	3.	.	.	lime	Leon 12
.	30·5	12.	30.	.	.	.	.	.		No. 213
.	25.	2.	36.	.	.	.	.	.		No. 62
Sulph	Acid	Iron	Silex	Alum	Lime	Water	Loss			
.	.	.	.	.	.	.	.	.		.
.	.	8.	.	.	.	.	.	16.	oxyg.	Am. Jour.
.	.	3.	12.	1.	.	.	.	.		Thury
.	.	.	33.	.	.	.	.	.		Thomson
.	.	.	50.	.	.	12.	.	.		Tab. com
.	.	.	25.	.	.	4·4	2·3	.		P. Trans.
.	.	6·9	2·8	.	1·4	.	.	.		Journal
20.	4. F	5.	.	.	.	.	.	.		Tab. com.
21	.	3.	.	2.	.	4.	2.	5.	lead †	Journal
17.	.	5.	24.	5.	.	5.	.	.		Thomson
23 5	.	8·4	7.	.	.	.	2·	.		Ditto
28·64	.	11·96	·76	.	.	.	.	.		Annals
29.	.	9.	4.	.	.	6.	.	6.	lead †	.
26.	.	8·	6.	.	.	4.	.	4.	copper	Thomson
26.	.	12.	.	.	.	4.	.	5.	arsenic	Ditto
12·5	36. c	.	.	.	*	·5	.	1.	c. mang.	Leon. 12
.	13·5 c	.	.	.	.	15·1	.	.		P. Trans.
.	35·2 c	.	.	.	.	.	.	.		Ditto
.	34 8 c	.	.	.	.	.	.	.		Ditto
.	28. c	1.	.	.	.	.	.	.		Ditto
Sulp	Silver	Lead	Nickel	Copper	Iron	Tellure	Loss			
.	.	.	.	.	.	.	.	.		.
5.	.	.	.	.	.	.	.	.		No. 16
40.	.	.	.	.	*	.	.	.		.
12·58	.	.	.	34·66	.	.	.	*	oxyg.	No. 129
16·3	15.	33.	.	·9	4·3	.	.	.		No. 67
11·58	.	24·32	1·58	12·10	.	1·32	5·9	.		An. ch. 67
.	.	.	.	.	5·2	.	.	4·1	c. acid ‡	Thomson
.	.	.	.	.	.	.	.	.		.

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‡ With 3·4 water.

		Trivial Name	Locality	Sp.gr.	Analyst	Cobalt
CXXIX.	12. gen. COBALT.					
	1. Sp. Arsenical.	White cob. ore	Schneeberg	.	John	28.
		Grey cob. ore	Tunaberg	6·45	Klaproth	44.
		Ditto	Ditto	.	Tassaert	36·66
		Ditto	Bieber	.	Laugier	12·7
		White	Ditto	.	Ditto	9·6
		Grey cob. ore	Cornwall	5·57	Klaproth	20.
		Argentiferous	Allemont	.	Schreiber	4·3
	2. Sp. Oxide.	Black cob. ore	Cheshire	.	.	.
	3. Sp. Arseniate.	Red cobalt	Reichelsdorf	.	Bucholz	39.
	4. Sp. Sulphuret.	.	Ridershytan	.	Hisinger	43·3
						Arsen
CXXX.	13. gen. ARSENIC.	.	Regulus	8·31	Aikin	.
	1. Sp. Native.	.	Erzgebirge	5·72	John	96·97
	2. Sp. Oxide.	.	.	.	.	.
	3. Sp. Sulphuret.	Realgar	Pouzzol	3·35	Bergman	90.
		Ditto	.	.	Klaproth	69.
		Orpiment	.	.	Ditto	62.
		Ditto	.	3·35	Thenard	57.
	4. Sp. Martial Sulph.	Mispickel	.	.	Vauquelin	53.
		.	.	.	Thomson	48·1
		.	.	.	Chevreul	43·41
						Mang.
CXXXI.	14. gen. MANGANESE.	.	Purified	6·85	Haüy	.
	1. Sp. Oxide.	Radiated	Ilefeld	4·75	Klaproth	90·5
		.	Moravia	.	Ditto	89.
		.	St Diey	4·07	Vauquelin	82.
		.	Tholey	.	Cordier	45·5
		.	Vesoul	.	Ditto	44.
		Compact	F. Micaud	.	Ditto	35.
		Brown oxide	Périgueux	.	Ditto	50.
		Ditto	Romaneche	.	Vauquelin	50.
		Ditto	L'Aveline	.	Ditto	65.
		Black earthy	Hartz	.	Klaproth	68.
		Ditto	Dalecarlia	.	Ditto	60.
		Ditto	Ringersdorf	.	Westrumb	45.
		Ditto, cobaltic	Ditto	.	Klaproth	16.
		Ditto	.	.	Berzelius	47·7
		Siliceous	Dannemora	.	Murray	23·54
	2. Sp. Carbonate.	Red ore	.	.	Lampad.	48.
		Ditto	Bohemia	.	Descostils	53.
		Ditto	.	.	Vauquelin	85.
	3. Sp. Sulphuret.	Black ore	Szekeremb	3·95	Klaproth	82.
	4. Sp. Phosphate.	.	Limoges	3·65	Vauquelin	42.

‡ With 2. copper.

LLIC MINERALS.

Arsen.	Sulph.	Iron	Silver	Silex	Alum	Water	Loss	Other ingred.	Authority
65·75	.	5.	.	.	.	.	.	1·25 mang.	Leon. 12
55·5	·5	.	.	.	.	.	.	.	No. 69
49.	6·5	5·66	.	.	.	.	2·18	.	Lucas
50.	*	10·5	.	25.	.	.	.	.	An. ch. 85
68·5	7.	9·7	.	1.	.	.	.	.	Ditto
33.	.	24.	.	.	.	.	23.	.	Thomson
20·75	.	3·5	12·75	.	.	.	.	4·75 merc.	Thury
.	.	.	.	.	.	.	.	.	.
38. ac.	.	.	.	.	.	23.	.	.	Lucas
.	38·5	3·53	.	·33	.	.	.	14·4 copper	Aikin
Sulph.	Iron	Antim.	Silex			Water	Loss		
.	.	.	.	.	.	.	.	.	.
.	1.	3.	.	.	.	*	.	.	Leon 12
.	.	.	.	.	.	.	.	.	.
10.	.	.	.	.	.	.	.	.	Tab. com.
31.	.	.	.	.	.	.	.	.	No. 215
38.	.	.	.	.	.	.	.	.	Ditto
43.	.	.	.	.	.	.	.	.	Tab. com.
15·3	19·7	.	12.	.	.	.	.	.	Thomson
15.	36·5	.	.	.	.	.	.	.	Ditto
20·13	39·93	.	.	.	.	.	.	.	Journal
Oxyg.	Iron	Silex	Alum	Lime	Baryt.	Water	Loss		
.	.	.	.	.	.	.	.	.	.
2·25	.	.	.	.	.	7.	·25	.	No. 112
10·25	.	.	.	.	.	·5	.	.	Ditto
.	.	6.	.	7.	.	5.	.	.	Journal
38.	2.	7·5	.	.	1·5	.	5·5	.	Ditto
42.	.	5.	.	.	.	.	4 5	.	Ditto
33.	18.	3.	.	7.	4.	.	.	.	Ditto
17.	13·5	7.	.	6.	5.	.	1·5	.	Ditto
33·7	.	1·2	.	.	14·7	.	.	4. carbon	Ditto
17.	.	6.	.	7. c	.	5.	.	.	Ditto
.	6·5	8.	.	.	1.	17·5	.	1. carbon	No. 113
.	.	25.	.	.	.	13.	2.	.	Do. 136
.	14.	11.	7·5	2. c	.	.	.	1·25 copper	An. ch. 4
.	.	24·8	20·4	.	.	17.	.	19·4 cobalt ‡	No. 70
.	4·6	40.	.	1·5	.	.	.	.	Berzelius
.	10·03	34·04	18·07	16·56	.	.	.	·56 mag.	Annals
.	2·1	·9	.	.	.	.	.	19·2 c. acid	Jameson
.	8.	*	.	.	.	.	.	36·6 ditto	.
.	.	.	.	.	.	.	.	15. ditto	Thomson
.	.	.	.	.	.	.	.	11. sulph. §	No. 74
.	31.	.	.	.	.	.	.	17. P. acid	An. ch. 41

§ With 5. c. acid.

		Trivial Name	Locality	Sp.gr.	Analyst	Antim.
CXXXII.	15. GEN. ANTIMONY.	·	Melted	6·70	Haüy	·
	1. Sp. Native.	·	Andreasberg	6·72	Klaproth	98.
	2. Sp. Sulphuret.	Grey ore	Cornwall	4·51	Bergman	74.
		Ditto	Ditto	·	J. Davy	74·06
		·	Altenkirchen	6·58	Klaproth	47·75
		Triple sulph.	Cornwall	5·76	Hatchett	24·23
	3. Sp. Oxide.	White ore	Przibram	·	Klaproth	100.
		·	Allemont	·	Vauquelin	86.
	4. Sp. Sulph. Oxide.	Red antimony	Saxony	4·09	Klaproth	67·5
						Uran
CXXXIII.	16. GEN. URANIUM.					
	Cristallised	Uran mica	·	3·12	·	·
		Uran ochre	·	3·24	·	·
	Massive	Pitchblend	Joachimstal	7·5	Klaproth	86·5
		Ditto	Eibenstock	·	Sage	78.
						Molyb.
CXXXIV.	17. GEN. MOLYBDENA					
		Wasserblei	·	4·74	Bucholz	60.
		·	·	·	Pelletier	45.
						Titan.
CXXXV.	18. GEN. TITANIUM.					
	1. Sp. Oxide.	Red schorl	Boinik	4·18	Klaproth	100.
		Menacanite	Cornwall	4·42	Gregor	45.
		Ditto	Ditto	·	Klaproth	45·25
		Ditto	Ditto	·	Lampad.	43·5
		Ditto	Transylvania	·	Ditto	87.
		Ditto	Ditto	·	Klaproth	84.
		Ditto	Botany Bay	·	Chenevix	40.
		Ditto	Uralian Moun.	4·67	Lowitz	53.
		Ditto	Bavaria	·	Vauquelin	49.
		Iserine	Gersdorf	4·5	Lampad.	59·1
		Ditto	Aberdeenshire	4·49	Thomson	48.
		Ditto	Siver Don	·	Ditto	41·1
		Ditto	Aschaffenberg	4·74	Klaproth	22.
		Ditto	Riesengebirge	4·65	Ditto	28.
		Ditto	Ufer	4·54	Ditto	14.
		Anatase	St Christophe	3·85	·	·
	2. Sp. Siliceo-Calcareous.	Brown ore	Passau	3·51	Ditto	33.
		Ditto	Arendahl	4·24	Abildgard	58.
		Sphène	St Gothard	3·23	Cordier	33·3
		Ditto	Ditto	3·49	Klaproth	45.
		Ditto	Arendahl	·	·	74.

LIC MINERALS.

Sulph.	Oxyg.	Lead	Copper	Nickel	Iron	Silex	Loss	Other ingred.	Authority
.	.	.	.	.	.	.	.	.	.
.	.	.	.	.	·25	.	.	1. silver	No. 90
26.	.	.	.	.	.	.	.	.	Thomson
25·94	.	.	.	.	.	.	.	.	Annals
15·25	.	.	.	25·25	.	.	.	11·75 arsen.	An. ch. 85
17.	.	42·62	12·8	.	1 2	.	2·15	.	P. Trans.
.	.	.	.	.	.	.	.	.	No. 93
.	.	.	.	.	3.	8.	3.	.	Journal
19·7	10·5	.	.	.	.	.	.	.	No. 92
Sulph.	Iron	Lead	Silex						
.	.	.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.	.
.	2·5	6. s	5.	.	.	.	.	.	No. 57
2.	20.	.	.	.	.	.	.	.	Lucas
Sulph.									
40.	.	.	.	.	.	.	.	.	Journal
55.	.	.	.	.	.	.	.	.	Thury
Iron	Mang.	Silex	Alum	Lime	Oxyg.	Water	Loss		
.	.	.	.	.	.	.	.	.	No. 14
46.	*	*	.	.	.	.	9.	.	Thomson
51.	·25	3·5	.	.	.	.	.	.	No. 59
50·4	·9	3·3	1·4	.	.	.	.	.	Thomson
9.	3.	.	.	.	.	.	1.	.	Jameson
14.	2.	.	.	.	.	.	.	.	No. 59
49.	.	11.	.	.	.	.	.	.	Thomson
47.	.	.	.	.	.	.	.	.	An. ch. 34
35.	2.	.	.	.	14.	.	.	.	Journal
31·1	.	.	.	.	.	.	.	10·2 uran	Jameson
48.	.	.	.	.	.	.	.	4. ditto	P. Mag.
39·4	.	16·8	3·2	.	.	.	.	3·4 ditto	Thomson
78.	.	.	.	.	.	.	.	.	No. 59
72.	.	.	.	.	.	.	.	.	Ditto 208
85·5	·5	.	.	.	.	.	.	.	Ditto 209
.	.	.	.	.	.	.	.	.	.
.	.	35.	*	33.	.	.	.	.	No. 15
.	.	22.	.	20.	.	.	.	.	Haüy
.	.	28.	.	32·2	.	.	6·5	.	Jameson
.	.	36.	.	16.	.	1.	.	.	No. 216
.	.	8.	.	18.	.	.	.	.	Haüy

		Trivial Name	Locality	Sp.gr.	Analyst.	Scheel
CXXXVI.	19. gen. WOLFRAM.					
	1. Sp. Ferruginous.	·	·	·	Elhuyars	65.
		·	·	·	Vauquelin	67.
		·	Cornwall	·	Klaproth	46·9
	2. Sp. Calcareous.	Tungsten	Schlackenwd.	6·01	Ditto	77·75
		·	Pengelly	5·75	Ditto	72·25
		·	Bitsberg	·	Scheele	65.
						Tellur
CXXXVII.	20. gen. TELLURIUM.	·	Purified	6·11	·	·
		Native	Fatzabay	5·72	Klaproth	92·55
		Graphic ore	Offenbanya	·	Ditto	60.
		Yellow ore	Nagyag	·	Ditto	44·75
		Foliated ore	Ditto	·	Ditto	32·2
		Ditto grey	Ditto	·	Ditto	33.
						Tanta.
CXXXVIII.	21. gen. TANTALUM.					
		Collumbite	America	5·91	Hatchett	87.
		Ditto	Ditto	5·87	Wollaston	80·
		Ytterbite	Finland	7·8	Ditto	85.
		Ditto	Ditto	7·95	Vauquelin	83.
		Ditto	Ditto	7·3	Klaproth	88.
		Yttro Tantal	Ditto	5·13	Vauquelin	45.
		Do. cristallised	Greenland	5·83	·	·
						Cerium
CXXXIX.	22. gen. CERIUM.					
	1. Siliceous Oxide.	Cerite.	Bastnæs	4·93	Hisinger	50.
		·	Ditto	·	Ditto	68·59
		·	Ditto	·	John	71·4
		·	Ditto	4·66	Klaproth	54·5
		·	Ditto	4·53	Vauquelin	63.
		·	Ditto	·	Thomson	44.
	2. Brown Oxide.	Allanite	Greenland	·	Ditto	33·9
		Cerin	Bastnæs	·	Berzelius	28·19
		·	Mysore	·	Wollaston	19·8
						Chrom
CXL.	23. gen. CHROMIUM.					
		·	Burgundy	2·57	Drapier	10·5
		·	Ditto	2·61	Ditto	13.
		·	Ditto	2·5	Descostils	2·5

MINERALS.

Iron	Mang.	Silex	Lime				Loss	Other ingred.	Authority
13·5	22.	2.	·	·	·	·	·	·	Aikin
18.	6·25	1·5	·	·	·	·	7·25	·	Ditto
31·2	·	·	·	·	·	·	21·9	·	Ditto
·	·	3.	17·6	·	·	·	·	·	No. 75
1·25	·75	1·5	18·7	·	·	·	·	·	Ditto
·	·	4.	31.	·	·	·	·	·	Ditto
Gold	Silver	Lead	Copper	Iron	Sulph.				
·	·	·	·	·	·	·	·	·	·
·25	·	·	·	7·2	·	·	·	·	No. 73
30.	10.	·	·	·	·	·	·	·	Ditto
26·75	8·5	19·5	·	·	·5	·	-	·	Ditto
9.	·	54.	1·3	·	3.	·	·	·	Ditto
8·5	·5	50.	·5	·	7·5	·	·	·	Thury
Iron	Mang.	Yttria							
21.	·	·	·	·	·	·	·	·	P. Trans.
15.	5.	·	·	·	·	·	·	·	Aikin
10.	4.	·	·	·	·	·	·	·	Ditto
12.	8.	·	·	·	·	·	·	·	Tab. com.
10.	2.	·	·	·	·	·	·	·	No. 169
·	·	·	·	·	·	·	·	·	·
·	·	·	·	·	·	·	·	·	·
Iron	Copper	Mang	Silex	Alum	Lime	Water	Loss		
22.	·	·	23.	·	5·5 c	·	·	·	An. ch. 50
2.	·	·	18.	·	1·25	9·6	·	* c. acid	Leon. 12
5·25	·35	·	18.	·	·	4.	·	·	Ditto
3·5	·	·	34·5	·	1·25	5.	·	·	No. 137
2.	·	·	17·5	·	4.	12.	1·5	·	An. ch. 54
4.	·	·	47·3	·	·	3.	1·7	·	E. Trans.
25·4	·	·	35·4	4·1	9·2	4.	12.	·	Ditto
20·72	·87	·	30·17	11 31	9·12	·	·	·	Journal
32.	·	·	34.	9.	·	·	·	·	Letter
Iron	Mang.	Silex	Alum	Lime			Loss		
·	·	64.	23.	2·5	·	·	·	·	Journal
2.	·	52.	27.	4·5	·	·	1·5	·	Ditto
1.	·	84.	4·5	·	·	·	8.	·	Ditto

	Locality	Date	Sp.gr.	Analyst	Silex	Alum.
CXLI. METEOROLITES.	Ensisheim	Nov. 1492	2·23	Berthold	42.	17.
	Ditto	Ditto	.	Vauquelin	56.	.
	Plann, Bohemia	July 1753	4·28	Howard	45.	.
	Eichstadt	Jan. 1753	.	Klaproth	37.	.
	Sena, Arragon †	Nov. 1773	.	Proust	66.	.
	Sienna, Tuscany	June 1794	3·41	Howard	46·66	.
	Ditto	.	.	Klaproth	44.	.
	Yorkshire	Dec. 1795	3·5	Howard	50.	.
	Ville Franche	Mar. 1798	.	Vauquelin	46.	.
1. Pyrites ‡	Benares	Dec. 1798	.	Howard	.	.
2. Malleable iron	.	.	.	Ditto	.	.
3. Globular concretions	.	.	.	Ditto	50.	.
4. Cement	.	.	.	Ditto	40.	.
	Ditto	.	.	Vauquelin	18.	.
	Aigle	April 1803	.	Ditto	30.	.
	Ditto	.		Thenard	46.	.
	Vaucluse	Oct. 1804	.	Laugier	34.	.
	St. Etienne §	Mar. 1806	1·94	Thenard	20·5	.
	Ditto	.	.	Vauquelin	30.	.
	Smolensk	May 1807	3·7	Klaproth	38.	1.
	Connecticut	1807	3·6	Warden	41.	1.
	Stannern	May 1808	3·19	Moser	46·24	7·62
	Ditto	.	.	Vauquelin	50.	9.
	Lissa	Sept. 1808	3·56	Klaproth	43.	1·25
	Tipperary	Aug. 1810	3·76	Higgins	48·25	.
	Ditto	.	.	Ditto	46.	.
METEORIC IRON.	South America	.	.	Howard	.	.
	Ditto	.	.	Proust	.	.
	Ditto	.	.	Klaproth	.	.
	Siberia	.	6·48	Howard	.	.
	Ditto	.	.	Klaproth	.	.
	Bohemia	.	.	Howard	.	.
	Senegal	.	.	Ditto	.	.
	Agram Croatia	.	.	Klaproth	.	.
	Bahia		.	Wollaston	.	.
Peridot ¶	.	.	3·26	Howard	54.	.
Ditto	.	.	.	Klaproth	41.	.

† The magnetic iron contained in this specimen had been previously separated; it amounted to 22 per cent., and contained 3 per cent. of nickel.

‡ 16 grains was the quantity here operated on. I have reduced it to decimal proportions, to assimilate it with the other analyses. allows that the nickel ob mated. The amount of ma

§ The very low specific gravit able.

INERALS.

Lime	Mag.	Iron	Nickel	Mang.	Sulph.	Increase	Loss	Other ingred.	Authority
2.	14.	20.	.	.	2.	.	3.	.	.
1·4	12.	30.	2·4	.	3·5	5·3	.	.	.
.	17·1	42·3	2·7	.	.	7·1	.	.	P. Trans.
.	21·5	16·5	1·5	.	*	.	4·5	19. mag.iron	An. ch. 51
.	20.	17.	.	.	.	3.	.	.	Aikin
.	22·67	34·67	2.	.	.	6.	.	.	P. Trans.
.	22·5	27·25	·6	2·5	.	.	5·4	.	An. ch. 51
.	24·67	32.	1.33	.	.	8.	.	.	P. Trans.
2.	15.	38.	2.	.	.	3.	.	.	Aikin
.	.	65·75	6·25	.	12·5	.	3.	12·5 earth	Ditto
.	.	65.	26.	.	.	.	.	8. ditto	Ditto
.	15.	34.	2·5	.	.	1·5	.	.	Ditto
.	18.	34.	2·5	.	.	2·5	.	.	Ditto
.	13.	38.	3.	.	*	2.	.	.	Journal 13
.	32·5	25·4	13·1	.	1.	.	.	18. mag.iron	Ditto
.	10.	45.	2.	.	5.	8.	.	.	An. ch. 47
.	14·5	38·3	·33	·25	9.	.	3 6	.	Ditto 69
.	9.	40.	15.	2.	4.	10·5	.	.	Ditto 59
.	14.	38.	2.	2.	.	.	.	2. chrome ‖	Aikin
·75	14·25	25.	·4	.	*	.	*	17·6 m. iron	No. 217
3.	16.	30.	.	1·34	2·33	.	3.	* chrome	Phil. Mag.
2·12	2·5	27.	.	·75	*	.	3·76	.	Leon. 12
2.	.	29.	*	1.	*	1.	.	.	An. ch. 70
·5	22.	29.	·5	·25	3·5	.	.	.	No. 217
.	9.	39.	1·75	.	4.	2.	.	.	Phil. Mag.
.	12·25	42.	1·5	.	4.	5·75	.	.	.
.	.	88·9	11·1	.	.	.	.	.	Aikin
.	.	88.	12.	.	.	.	.	.	Ditto
.	.	96·75	3·25	.	.	.	.	.	No. 120
.	.	87·5	12.5	.	.	.	.	.	Aikin
.	.	98·5	1·5	.	.	.	.	.	Ditto
.	.	82·4	17·6	.	.	.	.	.	Ditto
.	.	95·2	4·8	.	.	.	.	.	Ditto
.	.	96·5	3·5	.	.	.	.	.	No. 120
.	.	96·1	3·9	.	.	.	.	.	Letter
.	27.	17.	1.	.	.	.	.	.	P. Trans.
.	38·5	18·5	.	.	.	.	.	.	An. ch. 51

Mr Howard, however,
ined could only be esti-
eable iron was 25 grains.
of this stone is remark-

‖ With 2·5 carbonaceous matter, and 9·5 sulphur, water, and loss.

¶ Contained in the Siberian iron.

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