

## CONVERSION FACTORS FOR PRESSURE UNITS

	<b>Pa</b>	<b>kPa</b>	<b>MPa</b>	<b>bar</b>	<b>atmos</b>	<b>Torr</b>	<b>μmHg</b>	<b>psi</b>
Pa	1	0.001	0.000001	0.00001	$9.8692 \times 10^{-6}$	0.0075006	7.5006	0.0001450377
kPa	1000	1	0.001	0.01	0.0098692	7.5006	7500.6	0.1450377
MPa	1000000	1000	1	10	9.8692	7500.6	7500600	145.0377
bar	100000	100	0.1	1	0.98692	750.06	750060	14.50377
atmos	101325	101.325	0.101325	1.01325	1	760	760000	14.69594
Torr	133.322	0.133322	0.000133322	0.00133322	0.00131579	1	1000	0.01933672
μmHg	0.133322	0.000133322	$1.33322 \times 10^{-7}$	$1.33322 \times 10^{-6}$	$1.31579 \times 10^{-6}$	0.001	1	$1.933672 \times 10^{-5}$
psi	6894.757	6.894757	0.006894757	0.06894757	0.068046	51.7151	51715.1	1

To convert a pressure value from a unit in the left hand column to a new unit, multiply the value by the factor appearing in the column for the new unit. For example:

$$1 \text{ kPa} = 9.8692 \times 10^{-3} \text{ atmos}$$

$$1 \text{ Torr} = 1.33322 \times 10^{-4} \text{ MPa}$$

Notes: μmHg is often referred to as “micron”

Torr is essentially identical to mmHg

psi is an abbreviation for the unit pound–force per square inch

psia (as a term for a physical quantity) implies the true (absolute) pressure

psig implies the true pressure minus the local atmospheric pressure