

Units of Pressure

Unit	Abbreviation	Description
Atmosphere	Atm	Standard sea level pressure 760 torr, 1,013.25 mb, 101,325 Pa, about 14.7 psi
Torr	Torr	1 mm of Mercury (760 torr = 1 Atm), about 1.33 mb, about 6,895 Pa, about .0193 psi*
Inches of Mercury	Hg	256 mm of Mercury
Millibar	mb	1/1000 of a bar, about .000987 atm, about .75 torr, 100 Pa, about .0145 psi
Pascal	Pa	about .00000987 atm, about .0075 torr, .01 mb, about .000145 psi
Megapascal	MPa	about 9.87 atm
Pounds per Square Inch	Psi	about .068 atm, about 51.7 torr, about 68.95 mb, about 6,895 Pa
Pounds per Square Inch („gauge“ corrected)	Psig	see comment below

NOTE: with many types of gauges, one obtains a reading of "0" (zero) when there is one atmosphere inside the vessel. In other words, if the gauge reads (in whatever units) one atmosphere, the reaction is actually being conducted under a total of two atmospheres. In the case of psi units, the abbreviation psig is used when one simply reports the gauge pressure and doesn't want to think deeply about how many atmospheres this really means (it really means the gauge reading plus one atmosphere).

adapted from

<http://www.space-sciencegroup.nsula.edu/sotw/newlessons/default.asp?theme=math&pagename=pressureunits>