

Pressure Conversion Table and Vacuum Terminology

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<i>Vacuum Quality</i>	Unit Symbol	Pascal Pa	bar bar	millibar mbar	Torr Torr	Millitorr mTorr	pounds per square inch psi
<i>Rough Vacuum</i>	P	1,0E+05	1,000	1000,000	751,9	751880	14,5
	r	1,0E+04	0,100	100,000	75,2	75188	1,450
	e	1,0E+03	0,010	10,000	7,5	7519	0,145
<i>Medium Vacuum</i>	s	1,0E+02	0,001	1,000	0,752	752	0,015
	s	1,0E+01	1,0E-04	0,100	0,075	75,19	1,45E-03
	u	1,0E+00	1,0E-05	0,010	7,5E-03	7,52	1,45E-04
<i>High Vacuum</i>	r	1,0E-01	1,0E-06	1,0E-03	7,5E-04	0,752	1,45E-05
	e	1,0E-02	1,0E-07	1,0E-04	7,5E-05	0,075	1,45E-06
		1,0E-03	1,0E-08	1,0E-05	7,5E-06	7,5E-03	1,45E-07
		1,0E-04	1,0E-09	1,0E-06	7,5E-07	7,5E-04	1,45E-08
<i>Ultrahigh Vacuum</i>		1,0E-05	1,0E-10	1,0E-07	7,5E-08	7,5E-05	1,45E-09
		1,0E-06	1,0E-11	1,0E-08	7,5E-09	7,5E-06	1,45E-10
		1,0E-07	1,0E-12	1,0E-09	7,5E-10	7,5E-07	1,45E-11
		1,0E-08	1,0E-13	1,0E-10	7,5E-11	7,5E-08	1,45E-12
		1,0E-09	1,0E-14	1,0E-11	7,5E-12	7,52E-09	1,45E-13

1 bar = 1000 mbar = 10^5 Pa; 1 Torr = 133 Pa; 1 psi = 6895 Pa = 68.95 mbar.
Useful ranges are in bold face.