

Conversion Factors for Pressure Units

	Pascal	bar	mbar	μ bar	Torr (mm Hg)	micron (mTorr)	atm	psi
Pascal	1	10^{-5}	10^{-2}	10	$7.5006 \cdot 10^{-3}$	7.5006	$9.8692 \cdot 10^{-6}$	$1.4504 \cdot 10^{-4}$
bar	10^5	1	10^3	10^6	750.06	$7.5006 \cdot 10^5$	0.98692	14.504
mbar	10^2	10^{-3}	1	1000	0.75006	750.06	$9.8692 \cdot 10^{-4}$	$1.4504 \cdot 10^{-2}$
μ bar	10^{-1}	10^{-6}	10^{-3}	1	$7.5006 \cdot 10^{-4}$	0.75006	$9.8692 \cdot 10^{-7}$	$1.4504 \cdot 10^{-5}$
Torr (mm Hg)	$1.3332 \cdot 10^2$	$1.3332 \cdot 10^{-3}$	1.3332	1333.2	1	10^3	$1.3158 \cdot 10^{-3}$	$1.9337 \cdot 10^{-2}$
micron (mTorr)	0.13332	$1.3332 \cdot 10^{-6}$	$1.3332 \cdot 10^{-3}$	1.3332	10^{-3}	1	$1.3158 \cdot 10^{-6}$	$1.9337 \cdot 10^{-5}$
atm	$1.0133 \cdot 10^5$	1.0133	1013.3	$1.0133 \cdot 10^6$	760	$7.6 \cdot 10^5$	1	14.696
psi	$6.8948 \cdot 10^3$	$6.8948 \cdot 10^{-2}$	68.948	$6.8948 \cdot 10^4$	51.715	$5.1715 \cdot 10^4$	$6.8046 \cdot 10^{-2}$	1

How do you use this conversion table?

Example

Convert a pressure reading of 2.1 Torr into mbar units.

Start on the left side of the table and move down vertically until you reach the row labeled **Torr**. Move horizontally to the right along that row until you reach the 'Torr-to-mbar' conversion factor at the intersection with the **mbar** column. The conversion factor is 1.3332 (mbar/Torr). Multiply the pressure value expressed in Torr by this conversion factor to obtain the corresponding pressure value in mbar units –
 $2.1 \text{ Torr} \times 1.3332 \text{ mbar/Torr} = 2.7997 \text{ mbar}$.

