

# *Some Relevant Units – SI and Derived Units*

Physical quantity	Name of unit	Symbol and definition
Length	metre	m
Length	ångstrom, nanometre	$1 \text{ \AA} \equiv 10^{-10} \text{ m} \equiv 0.1 \text{ nm}$ $1 \text{ nm} \equiv 10^{-9} \text{ m} \equiv 10 \text{ \AA}$
Time	second	s
Electric current	ampere	A
Thermodynamic temperature	kelvin	K
Frequency	hertz	$\text{Hz} \equiv \text{s}^{-1}$
Energy	calorie	$1 \text{ cal} = 4.184 \text{ J}$

## *Pressure Conversion Factors*

1 atm	101325 Pa
1 atm	1.01325 bar
1 bar	$10^5 \text{ Pa}$
1 mbar	$10^2 \text{ Pa}$
1 Torr	1.332 mbar
1 Torr	133.32 Pa

*Gas Exposure*                       $1 \text{ L (langmuir)} = 1 \times 10^{-6} \text{ Torr s}$

