







• • • G	pter 11 Section 1	pounds		
• Few elements and many low molar masses molecular compounds do exist as gases at room temperature.				
TABLE 11.1	Molecular Compounds That Are Gases at Room Temperature			
Molecular Fo	rmula	Compound Name		
HCl		Hydrogen chloride		
NH ₃		Ammonia		
CO ₂		Carbon dioxide		
N ₂ O		Dinitrogen monoxide or nitrous oxide		
CH ₄		Methane		
HCN		Hydrogen cyanide		
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Jnit	Origin	Definition
standard atmosphere (atm)	Pressure at sea level	1 atm = 101,325 Pa
nmHg	Barometer measurement	1 mmHg = 133.322 Pa
OTT	Name given to mmHg in honor of Torricelli, the inventor of the barometer	1 torr = 133.322 Pa
bar	Same order of magnitude as atm, but a decimal multiple of Pa	$1 \text{ bar} = 1 \times 10^5 \text{ Pa}$

































































