







4. Particles in a gas interact with each other only when collisions occur.

Assumes no force of attraction/repulsin between gas particles







1	ation			
	Van der Waals constants fo	Van der Waals constants for several common gases		
$P + \frac{an}{W^2} \left( V - nb \right) = nRT$	Gas	$(atm L^2 mol^{-2})$	b (L mol <sup>-1</sup> )	
$V^{-}$ )	Ammonia, NH3	4.170	0.03707	
	Argon, Ar	1.345	0.03219	
	Carbon dioxide, CO2	3.592	0.04267	
	Helium, He	0.034	0.0237	
	Hydrogen, H <sub>2</sub>	0.2444	0.02661	
	Hydrogen fluoride, HF	9.433	0.0739	
	Methane, CH4	2.253	0.04278	
	Nitrogen, N2	1.390	0.03913	
	Oxygen, O2	1.360	0.03183	
	Sulfur dioxide, SO <sub>2</sub>	6.714	0.05636	
	Water, H <sub>2</sub> O	5.464	0.03049	



