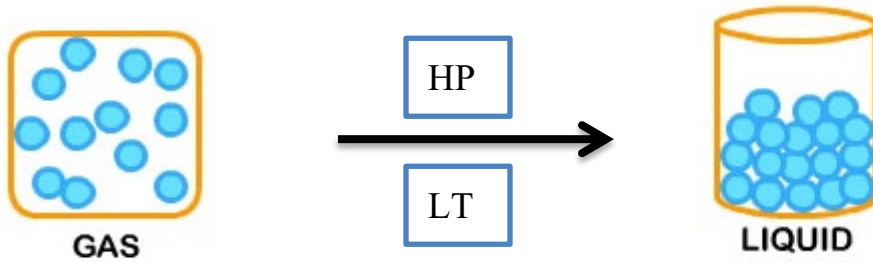


States of matter

गैसों का द्रवण (Liquefaction of gases)



HP = high pressure

LT = Low Temp.

Means A gas can be liquified both by increasing pressure & decreasing Temp.

(अर्थात एक गैस को उच्च दाब एवं निम्न ताप पर द्रवित किया जा सकता है)



Co₂ gas can not liquified at 35°C How

Co₂ (35°C)

so much pressure we apply.



Co₂ (31.1°C)

79.3 bar



Co₂(Liquid)

Means Co₂ can be liquified at 31.1°C

Means In liquefaction of gases is more than significant

यहाँ से 3 parameters हमें पढ़ने है |

Critical Temp.	Critical pressure	Critical volume
T_c	P_c	V_c
<p>The Temp. above which a gas cannot be liquefy how so much pressure we apply</p> $T = \frac{8a}{27Rb}$	<p>The pressure of gas at T_c is known as P_c</p> $P_c = \frac{a}{27b^2}$	<p>The volumes of 1 molar gas at T_c & V_c known as V_c $V_c = 3b$ Trick- c comes at 3 position alphabetically and $V = b$ NOTE= a & b are wonder as cons</p>

NOTE:- T_c , P_c & V_c are different for different gases for Ex.

CO_2 - T_c P_c V_c
 31.1°C 79.3 bar

Critical Temp.	Boyle's Temp	Inversion Temp
T_c	T_c	T_i
	<p>The Temp. at which a real gas behaves as an ideal gas is k/n as Boyle's Temp.</p> T_B	<p>It is the double of Boyle's Temp.</p> T_i
T_c		T_i
$= \frac{8a}{27Rb}$	$= \frac{a}{Rb}$	$= 2 \frac{a}{Rb}$

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I can say

$$T_i = 2 \times T_B$$

Q. – A gas can be liquefy ?

- (a) Above T_C Above P_C
- (b) Above T_C Below P_C
- (c) Above T_C Below P_C
- (d) Below T_C Above P_C**

Trick – G I ACP को याद रखिये |

Notes be prepared by

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For all comp.

Ex. – NEET, AIIMS, IIT

CID में जैसे ACP प्रमुख है
वैसे ही कैमेट्री में गिरधारी
लाल ACP है |