

SOLUBILITIES OF SOME COMMON GASES

Gas	Formula	1 cc. of water per 760 mm. dissolved at	
		0° C	40° C
Ammonia.....	NH ₃	1148 cc.	403 cc.
Carbon Dioxide.....	CO ₂	1.71 cc.	0.53 cc.
Hydrochloric Acid.....	HCl	506.0 cc.	387.0 cc.
Hydrogen.....	H ₂	0.0214 cc.	0.0164 cc.
Hydrogen Sulphide.....	H ₂ S	4.686 cc.
Nitrogen.....	N ₂	0.0238 cc.	0.0118 cc.
Oxygen.....	O ₂	0.0489 cc.	0.0218 cc.
Sulphur Dioxide.....	SO ₂	79.78 cc.	18.76 cc.

VALENCIES OF SOME COMMON GROUPS

Group	Valence	Name of Compound Formed
CO ₃	2 carbonate
NH ₄	1	Ammonium
OH	1 hydroxide
NO ₃	1 nitrate
SO ₄	2 sulphate
PO ₄	3 phosphate
CH ₃	1	Methyl
C ₂ H ₅	1	Ethyl