

Molecular Models

What are the three-dimensional structures of the molecular substances: water (H_2O), hydrogen peroxide (H_2O_2), hydrogen sulfide (H_2S), methane (CH_4), methanol (CH_3OH), ethanol ($\text{C}_2\text{H}_5\text{OH}$), propane (C_3H_8), ammonia (NH_3), chlorine and sulfur (cyclooctasulfur)?

Homework Worksheet

p. 273 #26-33

Identify each of the following as an acid, base, ionic compound or molecular compound.

Unknown	SATP State	Solution Conductivity	Litmus Test
A <i>BASE</i>	solid	yes	red to blue
B <i>MOLECULAR</i>	liquid	no	no change
C <i>ACID</i>	gas	yes	blue to red
D <i>IONIC</i>	solid	yes	no change



Identify each unknown as NH_3 , $\text{Ba}(\text{OH})_2$, NaNO_3 or HCl .

B A D C

Compounds Worksheet

①

H_2CO_3 - ~~hydrocarbonic acid~~

$H^+ CO_3^{2-}$ → Carbonate (____ic acid)

Carbonic acid