

NAME: _____

Complete the Table

page 1 ____ pts
DUE next time we meet

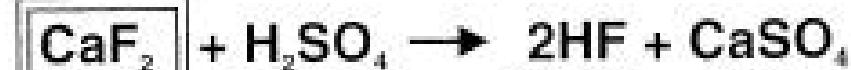
Draw the Lewis Dot structure for the substance	State the substance's ICAO	Indicate the <u>geometry</u> about each atom in the substance	Is the substance <u>polar</u> or <u>nonpolar</u> ?	Is the substance <u>soluble</u> or <u>insoluble</u> in water?
H ₂ O (water)				
NH ₃ (ammonia gas)				
HF (hydrofluoric acid)				
HCl (hydrogen chloride)				
H ₂ S (dihydrogen sulfide)				
CO (carbon monoxide)				
SO ₂ (sulfur dioxide)				

CH ₄ (methane gas)				
C ₂ H ₄ (ethene gas)				
F ₂ (fluorine gas)				
I ₂ (iodine solid)				
CH ₃ CH ₂ CH ₂ NH ₂ (n-propyl amine)				
(CH ₃) ₃ N (trimethyl amine)				
(CH ₃ CH ₂) ₂ O (diethyl ether)				
CH ₃ CH ₂ CH ₂ CH ₂ OH (n-butanol)				

Written & directed by James Cameron, the Abyss (1989) - 80% of the movie was filmed underwater
<http://www.youtube.com/watch?v=9MdlyM7w8PM> or Google "abyss rat" ([click here](#))

Fluid Breathing System - San Diego, Alliance Pharmaceuticals

Minerals to Medicines



identify
substance type
ICAO

CaF₂

H₂SO₄

HF

CaSO₄

CHCl₃

SbF₅

CHF₂Cl

CHFCI₂

CHF₃

CF₂

CF₂=CF₂

I₂

SbF₅

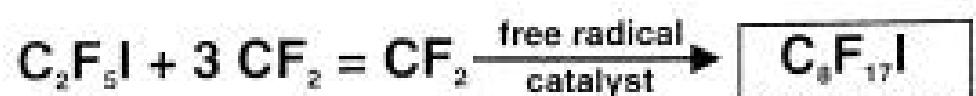
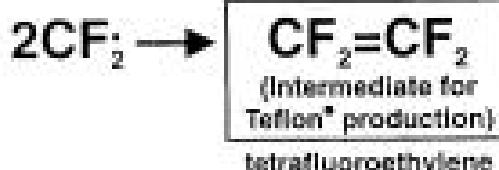
C₂F₅I

SbF₃

C₈H₁₇I

Br₂

C₈H₁₇Br



CaF_2	H_2SO_4	HF
CaSO_4	CHCl_3	CHF_2Cl
CHFCl_2	CHF_3	HCl
CF_2 (unstable, disobeys octet)	I_2	SbF_5
$\text{CF}_2=\text{CF}_2$	$\text{C}_2\text{F}_5\text{I}$	SbF_3
$\text{C}_{8}\text{F}_{17}\text{I}$ (line angle drawn)	Br_2	$\text{C}_{8}\text{F}_{17}\text{Br}$ (draw the line angle structure)