Lewis Structure Review

Additional Questions Asked:

- 1. Structure
 - a. VSEPR shape
 - b. Bond angle
 - i. Same plane
 - c. Polarity
 - d. Formal Charge
 - e. Hybridization
 - f. Identify the hydrogen atom that most readily reacts with a base.
- 2. IMF
 - a. Which IMF are present?
 - i. Which IMF explains differences in boiling?
 - ii. Which would be more soluble in water?
 - b. Comparisons
 - i. Highest Boiling Point
 - ii. Highest Equilibrium Vapor Pressure
 - iii. % Ionization

Structure List from Exams 2019-2024

Name, Formula	Lewis Dot Structure	Additional Questions
Butanal, C₄H ₈ O		2bi.
Pentane, C ₅ H ₁₂		2bi.
Propanoic acid, C ₃ H ₆ O ₂		
Methanol, CH₃OH		

Bromine monofluoride, BrF	
Carbon disulfide, CS ₂	
Boron trifluoride, BF ₃	
Ethanol, C ₂ H ₆ O	
Ethane, C₂H ₆	
Propanol, C₃H ₈ O	
Dimethyl ether, CH ₃ OCH ₃	
Sulfur trioxide, SO ₃	

Diaminomethanal, H ₂ NCONH ₂	
X-CH₂COOH, where X is a halogen	
Glycinium, C₂H6NO2 ⁺	
NH ₂ CH ₂ COO ⁻ Na ⁺	
Dichloroethene, C ₂ H ₂ Cl ₂	
Formic acid, CHOOH	
Carbon monoxide, CO	
Chloramine, NH₂Cl	

Nitrogen trichloride, NCl₃	
Oxalate ion, C ₂ O ₄ -2	
Aluminum chloride, AlCl ₃	
Lactic acid, C ₃ H ₆ O ₃	
Nitrogen dioxide, NO₂	
Nitronium ion, NO ₂ ⁺	