1. Indicate the type of intermolecular bonding that is present in the following:

NaCl (s)

CO₂ (s)

H₂O (s)

\( \text{OH} \)

I₂ (s)

\( \text{O} \)

\( \text{Na}^+ \)

2. Rank the following in terms of increasing boiling point.

\( \text{ONa} \)  \( \text{CH}_3\text{CH}_3 \)  \( \text{CH} \)  \( \text{CH} \)  \( \text{OH} \)  \( \text{CH} \)

3. a. Which of the following would be expected to be soluble in H₂O?

\( \text{ONa} \)  \( \text{Br}_2 \)  \( \text{CH}_3\text{CH}_2\text{OH} \)  \( \text{NH}_2 \)  \( \text{O} \)

b. Which of the following would be expected to be soluble in diethylether?

\( \text{ONa} \)  \( \text{Br}_2 \)  \( \text{CH}_3\text{CH}_2\text{OH} \)  \( \text{NH}_2 \)  \( \text{O} \)

c. Which of the following would be expected to be soluble in carbontetrachloride?

\( \text{ONa} \)  \( \text{Br}_2 \)  \( \text{CH}_3\text{CH}_2\text{OH} \)  \( \text{NH}_2 \)  \( \text{O} \)