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Which substance has the higher boiling point: butane ( $C_4H_{10}$ ) or hexane ( $C_6H_{14}$ )? Explain.

Which substance has the higher boiling point:  $Br_2$  or  $ICl$ ? Explain.

Rank the following substances from lowest to highest boiling point:  $C_5H_{12}$ , Ne,  $CCl_4$ ,  $C_2H_6$

Draw 3 Lewis structures for  $C_2H_5N$  and explain which one has the lowest boiling point.

How many hydrogen bonding interactions are there in a beaker that contains 250 mL of water?

What is the  $\Delta H_{\text{vap}}$  of water if the temperature of boiling water atop Mt Whitney is 85.1 °C. The summit of Mt. Whitney is 14505 feet above sea level and the atmospheric pressure at the summit is 0.58 atm.

What is the boiling point of water on the top of Mt. Everest where the atmospheric pressure is 250 mmHg?