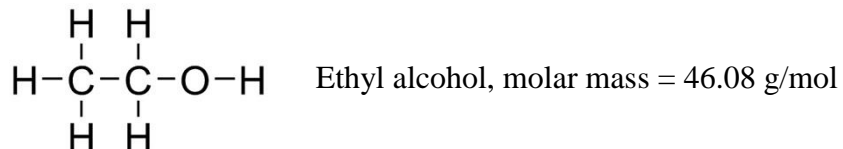


Name: _____

Period: _____

Seat#: _____




The heat of fusion of ethyl alcohol, ΔH_{fus} , is 4.98 kJ/mol.

The heat of vaporization of ethyl alcohol alcohol, ΔH_{vap} , is 39.40 kJ/mol.

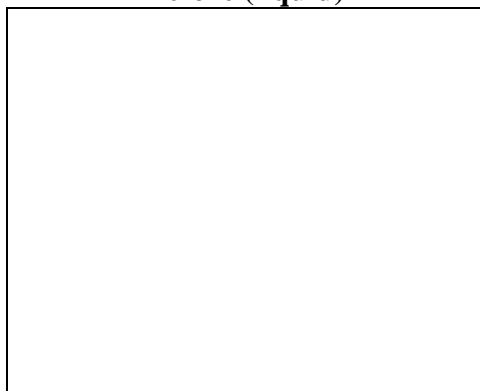
Phase Change Equations

Write an equation for alcohol vaporizing. Include the energy value.

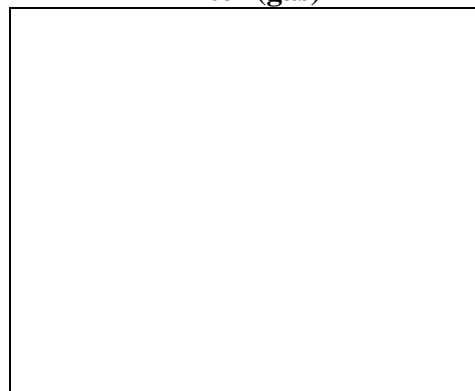
Change on the Particulate Level

If alcohol molecules looked like , draw a before and after picture of alcohol vaporizing.

Before (liquid)



After (gas)



Calculations

How much heat is needed to boil 10.0 grams of ethyl alcohol? (Show work as a single line equation.)

How much heat is released when 25.0 grams of liquid ethyl alcohol freezes?
(Show work as a single line equation.)