

QUESTION

The graph below shows the **enthalpy of vaporization** (ΔH_{vap}) of several liquids plotted as a function of molecular weight. The **normal boiling point** of each liquid is also shown. The temperature at which the ΔH_{vap} becomes a positive value is called the **critical point**.

ANSWER

As molecular weight increases (\rightarrow right), the **normal boiling point** (T_b) and **enthalpy of vaporization** (ΔH_{vap}) both increase. The **critical point** (T_c) also increases with ΔH_{vap} and T_b . The **critical point** (T_c) is the point at which ΔH_{vap} becomes zero. The **critical point** (T_c) is the point at which the **liquid and gas phases** are indistinguishable. The **critical point** (T_c) is the point at which the **liquid and gas phases** are indistinguishable.



ANSWERS



10. The screwdriver is made of

Material: steel

Properties:

- strong and hard (resists bending)
- resistant to corrosion (rust)

Material: wood