

(1) **Heat capacity**

The quantity of heat required to raise the temperature of a substance by one degree. Units: J/K

(2) **Specific heat capacity**

The quantity of heat required to raise the temperature of unit mass of a substance by one degree. Units: J/(kg K)

(3) **Molar heat capacity**

The quantity of heat required to raise the temperature of unit mole of a substance by one degree. Units: J/(mol K)

(4) **Specific heat capacity at constant pressure**

The quantity of heat required to raise the temperature of unit mass of a substance by one degree at constant pressure. Units: J/(kg K)

(5) **Specific heat capacity at constant volume**

The quantity of heat required to raise the temperature of unit mass of a substance by one degree at constant volume. Units: J/(kg K)

(6) **Molar heat capacity at constant pressure**

The quantity of heat required to raise the temperature of unit mole of a substance by one degree at constant pressure. Units: J/(mol K)

(7) **Molar heat capacity at constant volume**

The quantity of heat required to raise the temperature of unit mole of a substance by one degree at constant volume. Units: J/(mol K)

Note: for Gases, $C_p > C_v$; for liquids and solids, $C_p = C_v$