

MOLAR SPECIFIC HEAT OF A GAS

"The amount of heat needed by unit mass of a substance to increase its temp by 1°C or 1K is called its specific heat capacity of the substance."

$$s = \frac{dQ}{m \cdot dT} \quad \text{--- (1)}$$

$$dQ = ms dT \quad \text{--- (2)}$$

"The amount of heat needed by 1 mole of a substance to raise its temp. by 1°C or 1K is called molar sp. heat of the substance"

$$C = \frac{dQ}{\mu \cdot dT} \quad \text{--- (3)}$$