

5.1.5 DENSITY

Density

- the amount of matter that occupies a certain space
- the mass per unit volume (e.g. **g/cm³**)
- a physical property – measured with out forming anew product
- substances usually have different densities therefore measuring density can be a good way of identifying them

Formula for density:

$$\text{Density} = \frac{\text{mass}}{\text{Volume}}$$

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$$D = \frac{m}{V}$$

Example:

$$\text{Mass} = 1600 \text{ kg}$$

$$\text{Volume} = 80 \text{ m}^3$$

$$D = \frac{m}{V} = \frac{1600 \text{ kg}}{80 \text{ m}^3} = 20 \text{ kg/m}^3$$

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