

Question #45911, Chemistry, Physical Chemistry

A scientist wants to measure the density of an unidentified solid block. It is found to have a volume of 112 cm³ and a mass of 95.0 g. What is the density of the object?

Answer:

Density - a scalar physical quantity, defined as the ratio of body weight to volume occupied by this body.

$$\rho = m/V$$

density of block:

$$\rho = 95/112 = \mathbf{0.84 \text{ (g/cm}^3\text{)}}$$