

Density

Density is the mass per unit volume of a substance.

$$D = \frac{m}{V} = \frac{\text{mass}}{\text{volume}}$$

Units

either kilograms
metre³ or grams
centimetre³

kg
m³ or g
cm³

NOTE: 1 cm³ = 1 mL

Solids (at 20°C) kg/m ³	Liquids (at 20°C) kg/m ³	Gases (at 0°C & standard pressure) kg/m ³
Osmium 22 500	Mercury 13 600	Carbon dioxide 1.98
Platinum 21 400	Carbon tetrachloride 1 600	Oxygen 1.43
Gold 19 300	Chloroform 1 490	Air 1.29
Uranium 18 700	Sea water 1 030	Nitrogen 1.25
Lead 11 300	Water 1 000	Helium 0.178
Nickel 8 900	Olive oil 920	Hydrogen 0.089
Copper 8 900	Turpentine 870	
Iron 7 900	Methyl alcohol 790	
Zinc 7 100	Ether 740	
Tin 5 600	Gasoline 690	
Aluminum 2 700		
Magnesium 1 700		
Ice (0°C) 920		