

Answer on Question #48003, Chemistry, Other

Task:

A 8.462 g metal bar changes the water level in a 50 ml graduated cylinder from 23.7 ml to 25.9 ml. calculate the density of metal.

Answer:

$$V_m = V_2 - V_1$$

$$V_m = 25.9 - 23.7 = 2,2 \text{ ml}$$

$$\rho = m_m / V_m$$

$$\rho = 8,462 / 2,2 = 3,84 \text{ g/cm}^3$$