Answer on Question #54273 – Chemistry – General chemistry

Question:

Solution contains 4 grams of sodium hydroxide in 250ml of solution. If Na=23, O=16, H=1 and 1 cm^3 of water weighs 1 g, what is the concentration of the solution in grams per dm^3?

Answer:

The concentration of the solution in grams/dm^3 equals:

C = m/V, where m - the mass of NaOH and V – the volume of the solution.

C = 4 g/ 250 ml = 0.016 g/ml = 16 g/L = 16 g/dm^3.