

Answer on Question #68924-Physics-Other

1000 gram of NaOH contains 3 mole of oxygen then what is the %purity of NaOH?

Solution

$$M(\text{NaOH}) = 40 \frac{\text{g}}{\text{mol}}$$

$$v(\text{NaOH}) = \frac{m}{M(\text{NaOH})} = \frac{1000}{40} = 25 \text{ mol.}$$

1 mole of NaOH must contain 1 mole of oxygen.

Purity is

$$\frac{3}{25} 100\% = 12\%.$$

Answer provided by <https://www.AssignmentExpert.com>