

Answer on the question #50209, Chemistry, Other

Question:

What is the mass of 2.0 moles of LiOH ?

Solution:

The relation between the mass and the number of the moles is:

$$m = n \cdot M$$

where m – mass of the substance

n – number of the moles

M – molar mass of the substance.

For LiOH:

$$m = 2.0 \cdot (6.941 + 15.999 + 1.008) = 47.896 \approx 48 \text{ g}$$

Answer: 48 g