

#82193 Chemistry, Other

How many grams of silver are in 50.0 g of AgNO_3 ?

Answer:

$$M(\text{AgNO}_3) = 169.91 \text{ g/mol}$$

$$M(\text{Ag}) = 107.9 \text{ g/mol}$$

Portion of silver in the total mass of the compound is: $107.9/169.91 = 0.6350 = 63.50\%$

$$m(\text{Ag}) = 0.6350 \times 50 = 31.75 \text{ g}$$

Therefore, there is 31.75 grams of silver in the compound.

Answer provided by www.AssignmentExpert.com