Answer on Question #82188, Chemistry / General Chemistry

Using the relative atomic masses below, calculate the amounts required to make 200 ml of a buffer containing 10 mM KH_2PO_4 .

Solution

Find molar mass of KH₂PO₄:

$$M(KH_2PO_4) = 39 + 2 \times 1 + 31 + 4 \times 16 = 136 (g/mol)$$

Find the mass of 10 mM KH₂PO₄:

$$m(KH_2PO_4) = 136 \times 0.01 = 1.36 (g)$$

Answer

1.36 g of KH₂PO₄ are required to make 200 ml of a buffer containing 10 mM KH₂PO₄.

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