

MUSTAQIL ISHLASH UCHUN MASALALAR YECHIMLARI

1-masala — ishlanishi

$$m_{modda} = 0.12 \times 250 = 30 \text{ g}$$

Yangi $w = 20\% \rightarrow m_{eritma} = 30 / 0.20 = 150 \text{ g}$

Bugʻlanadigan massa:

$$\Delta m = 250 - 150 = 100 \text{ g}$$

2-masala — ishlanishi

$$w = 25 / 400 = 0.0625 = 6.25\%$$

Erituvchi massasi:

$$m_{erituv} = 400 - 25 = 375 \text{ g}$$

3-masala — ishlanishi

$$V = 800 \text{ ml} = 0.8 \text{ L}$$
$$C^M = n / V = 1.2 / 0.8 = 1.5 \text{ M}$$

4-masala — ishlanishi

$$m_{modda} \text{ (o'zgarmaydi)} = 0.10 \times 500 = 50 \text{ g}$$

Yangi massa = $500 + 100 = 600 \text{ g}$

$$w = 50 / 600 = 8.33\%$$

5-masala — ishlanishi

$$n_1 = 0.3 \cdot 2 = 0.6 \text{ mol}$$
$$n_2 = 0.1 \cdot 1 = 0.1 \text{ mol}$$
$$n = 0.6 + 0.1 = 0.7 \text{ mol}$$
$$V = 2 + 1 = 3 \text{ L}$$
$$C^M = 0.7 / 3 = 0.233 \text{ M}$$

6-masala — ishlanishi

$$n = m / M = 9 / 60 = 0.15 \text{ mol}$$
$$m_{erituv} = 300 \text{ g} = 0.3 \text{ kg}$$
$$b = n / m_{erituv} = 0.15 / 0.3 = 0.5 \text{ mol/kg}$$

7-masala — ishlanishi

$$m_{modda} = 0.5 \times 50 = 25 \text{ g}$$
$$w = 25 / 250 = 10\%$$

8-masala — ishlanishi

Boshlang'ich modda massasi:

$$m_{modda} = 0.30 \cdot 100 = 30 \text{ g}$$

Oxirgi massa = 60 g

$$w = 30 / 60 = 50\%$$

9-masala — ishlanishi

$$V = n / C^M = 0.03 / 0.4 = 0.075 \text{ L} = 75 \text{ ml}$$

10-masala — ishlanishi

$$m_1 = 0.20 \cdot 200 = 40 \text{ g}$$

$$m_2 = 0.08 \cdot 300 = 24 \text{ g}$$

$$m_{modda} = 40 + 24 = 64 \text{ g}$$

$$M_0 = 200 + 300 = 500 \text{ g}$$

Bug'lanadi: 80 g $\rightarrow M = 420 \text{ g}$

$$w = 64 / 420 = 15.2\%$$