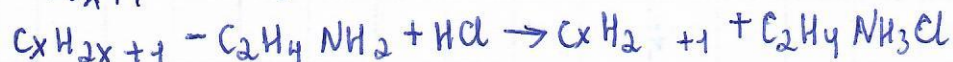


4-м.



$$V(\text{амин}) + V(\text{қышқыл}) = V(HCl)$$

$$V(\text{амин}) + V(\text{қышқыл}) = 0,2 \text{ моль}$$

$$V(\text{амин}) = 0,1 \text{ моль}$$

$$V(\text{қышқыл}) = 0,1 \text{ моль}$$

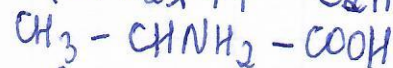
$$M(C_xH_{2x+1}-C_2H_4NH_2) = V(C_xH_{2x+1}-C_2H_4NH_2) \cdot M(C_xH_{2x+1}-C_2H_4NH_2)$$

$$M(C_xH_{2x+1}-C_2H_4NH_2) = 0,1 \cdot (14x + 45)$$

$$M(C_xH_{2x+1}-CHNH_2-COOH) \cdot M(C_xH_{2x+1}-CHNH_2-COOH)$$

$$M(C_xH_{2x+1}-CHNH_2-COOH) = 0,1 \cdot (14x + 75)$$

$$M(C_xH_{2x+1}-C_2H_4NH_2) + M(C_xH_{2x+1}-CHNH_2-COOH) = 14,82$$

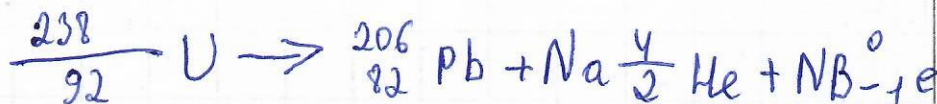


$$m(CH_3-CHNH_2-COOH) = 0,1 \cdot 89 = 8,92$$



Na - ?

NB - ?



$$238 = 206 + 4Na$$

$$92 = 82 + 2Na - NB$$