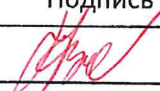


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9.2

$$\begin{array}{|c|c|c|c|c|}
 \hline
 8 & - & 5 & = & 3 \\
 \hline
 - & & & + & \\
 \hline
 6 & & & 5 & 10 - 4 = 6 \\
 \hline
 = & & & = & - & + \\
 \hline
 2 & 14 & 8 + 4 = 12 & & 3 \\
 \hline
 - & & = & & = \\
 \hline
 & 7 - 1 = 6 & & & 9 \\
 \hline
 = & + & & & \\
 \hline
 7 & 4 + 6 = 10 & & & \\
 \hline
 & = & + & - & \\
 \hline
 7 - 2 = 5 & & 3 & 1 & \\
 \hline
 & & = & = & \\
 \hline
 & & 9 & 9 & \\
 \hline
 \end{array}$$

$$\begin{array}{c|c|c|c|c|}
 1 & 2 & 3 & 4 & 5 \\
 \hline
 13 & 20 & 6 & 12 & 5
 \end{array}$$

$$a = 8 \quad o = 7$$

$$b = 10 \quad p = 5$$

$$c = 5 \quad s = 4$$

$$d = 4 \quad t = 2$$

$$e = 3 \quad x = 6$$

$$f = 1 \quad y = 6$$

$$g = 1 \quad z = 3$$

$$k = 14$$

$$m = 4$$

$$n = 7$$

20



1) Dano:

$$\omega_{Cr} = 100\%$$



Cr

2) Dano:

$$\omega_{Cr} = 68,42\%$$

$$\omega_O = 31,58\%$$

$$Cr_xO_y = ?$$

Решение:

$$x:y = \frac{\omega_{Cr}}{M_r(Cr)} : \frac{\omega_O}{M_r(O)} = \frac{68,42}{52} : \frac{31,58}{16} = 1,32 : 1,97 \cdot 2$$

$$2,64 : 3,94 = 2 : 3 \Rightarrow Cr_2O_3$$

3) Dano:

$$\omega_{Cr} = 40,21\%$$

$$\omega_O = 32,99\%$$

$$\omega_K = 26,80\%$$

$$K_xCr_yO_z = ?$$

Решение:

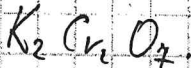
$$x:y:z = \frac{40,21}{39} : \frac{26,80}{52} : \frac{32,99}{16} = 1,03 : 0,51 : 2,06$$

$$2 : 1 : 4 \quad K_2CrO_4$$

Решение:

$$x:y:z = \frac{26,53}{39} : \frac{35,37}{52} : \frac{38,10}{16} = 0,68 : 0,68 : 2,38 \cdot 2$$

$$2 : 2 : 7$$



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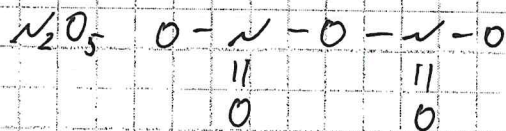
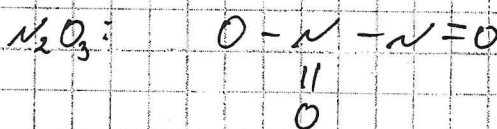
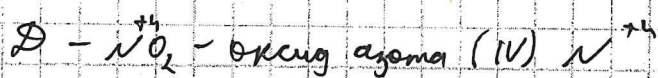
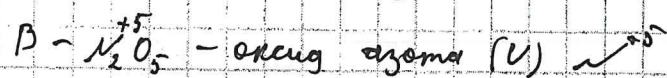
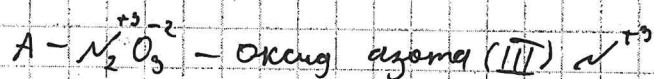
№9.4



$$\Delta H_p = (6 \Delta H(CO_2) + 5 \Delta H(H_2O)) - \Delta H(C_6H_{10}O_5) + 6 \cdot \Delta H(O_2) = (6 \cdot (-394) + 5 \cdot (-286)) - (-1060) + 6 \cdot 0 = -2364 - 1430 + 1060 = -2734 \text{ КДж} \quad 7$$

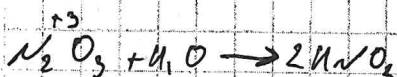
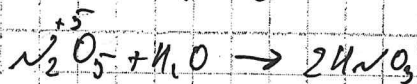
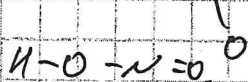
№9.1

1) X - азот



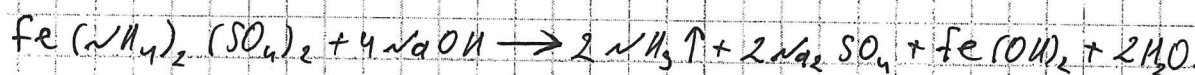
2) E - HNO_3 - азотная кислота

F - HNO_2 - азотистая кислота



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№9.5



3



2

№9.3 (продолжение)

5) Дано:

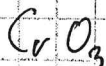
$$w_{\text{Cr}} = 52\%$$

$$w_{\text{O}} = 48\%$$

Cr_xO_y ?

Решение:

$$x:y = \frac{w_{\text{Cr}}}{M_{\text{Cr}}} : \frac{w_{\text{O}}}{M_{\text{O}}} = \frac{52}{52} : \frac{48}{16} ; 1:3$$



6) Дано:

$$w_{\text{Cr}} = 61,9\%$$

$$w_{\text{O}} = 38,1\%$$

Решение:

$$x:y = \frac{w_{\text{Cr}}}{M_{\text{Cr}}} : \frac{w_{\text{O}}}{M_{\text{O}}} = \frac{61,9}{52} : \frac{38,1}{16} ; 1,19 : 2,38$$



1:2

