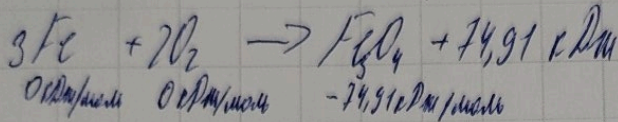
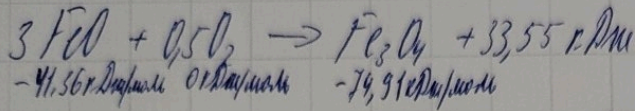
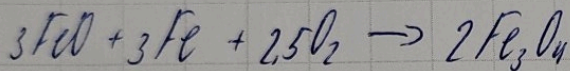
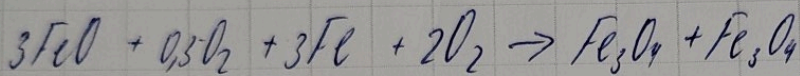


№2.1



$$-74,91 \times 2 + 33,55 = -116,27$$

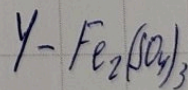
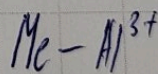
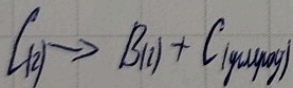
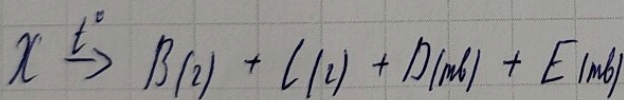
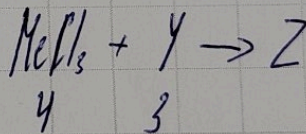
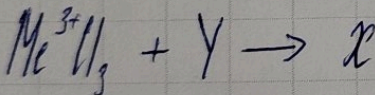


$$\Delta H_{\text{пр}} = 2 \cdot (-74,91) - 3 \cdot (-41,36) = -149,82 + 124,08 = -25,74 \text{ кДж/моль}$$

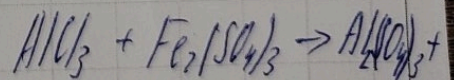
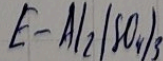
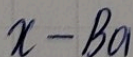
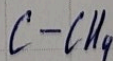
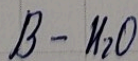
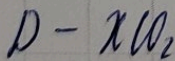
$$-25,74 : 2 = -12,87 \text{ кДж/моль}$$

ответ: -12,87 кДж/моль

№1



$$w(\text{C}) = 6,69$$



$$w = \frac{A_r \cdot n}{M_n} \cdot 100\% = \frac{12,01}{181,34} \cdot 100\% \approx 6,69\%$$



N1. $X = Be$
 $y = 500$

~~X~~

$A = 11$

$E = 11$

$B = H_2$

N2. $m(\text{Fe}) = 242$

$Q = 33,55 \text{ tDre}$

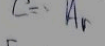
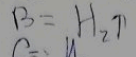
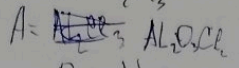
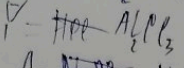
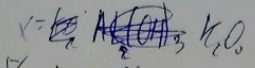
$m(\text{Fe}) = 41,22$

$Q = 24,51 \text{ tDre}$

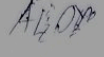
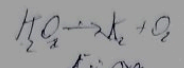
N3. $m(\text{HPP}) = 4826$

HPP+

1/4



E:



SEP

$N_2 \quad m(Fe^{2+}) = 2112$

$A = 33,59 \text{ g Dm.}$

$m(Fe^{2+}) = 11,2 \text{ g}$

$D = 44,81 \text{ g Dm.}$

$m(H_2O) = 961,6 \text{ g}$

HCl +

укуп

X - 10 - 16

$N_2 \text{ mlte} = 2H_2$

$C = \frac{112}{A_r}$

viciz menax A-x
 miz kablukunlar: m = 461,6 g.
 megalb mizze:

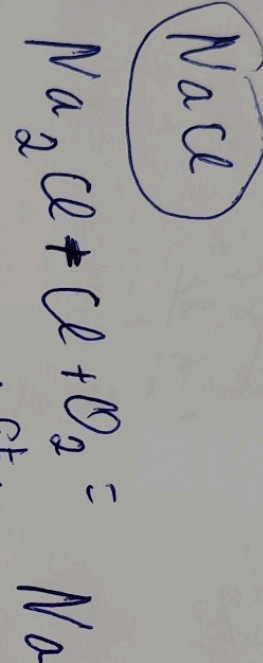
muapp
 x-10-15

$$\begin{array}{r} 461,6 - x \\ 461,6 - 16,8 \\ \hline x = \frac{461,6}{16,8} \end{array}$$

$$\begin{array}{r} 461,6 - x \\ 461,6 - 16,8 \end{array}$$

$$\frac{461,6}{16,8} = 27,5$$

27,5



13H1

Na

N

Deneyleri:

Genel (II)
 $\Delta H^{\circ}(p) = \sum n_{\text{uyug}} \Delta H^{\circ}(uyug) - \sum n_{\text{uvac}} \Delta H^{\circ}(uvac)$

16,8 J (k.g.k.)

+ 3 mekrekler go

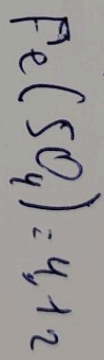
2:1:1

11g3 1
 Cl(Bor)

2H2/uvac

Deneyleri:

2,59 eek.



$k_{sp} = 465 \cdot 10^8$

$$\frac{16,8}{2}$$

$$\frac{16,8 \cdot 2}{3} = 50,4$$

$$16,80$$

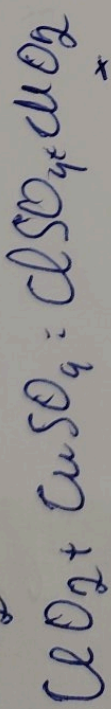
$$\frac{16,8}{13} \cdot 2$$

$$\frac{16,8}{22} = 336$$

1.1. Fe; CO; Ti;

1.2. ~~SO4~~ +

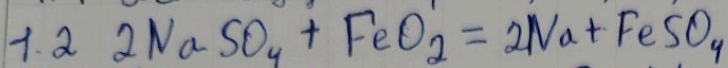
~~ClO2~~ + SO



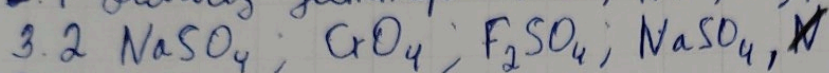
100g
 16,8
 16,8
 16,8

№1

1.1 Әеиисіз заттар: Fe; Sc; Ti; Co.



2.1 Әеиисіз заттар \rightarrow C; Na; Fe; N.

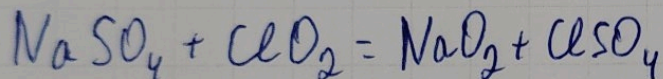


3.3 $x = \frac{461,6}{16,8} \approx 27,47$ $x = \frac{416}{115,6} \approx 3,59$

№ 4

4.1 тұз 1 формуласы: NaCl

тұз 2: $\frac{24}{2,59} \approx 9,26$



4.2 газдардың формуласы: K_2O_2

4.3 NaO_2 ; $ClSO_4$; ClO_2 .

4.4 $K_{sp} = 4,65 \cdot 10^{-9}$ $\frac{4,65 \cdot 10^{-9}}{10} = 465 \cdot 10^{-9}$
 $тұз_2 = 10 \text{ мс}$

4.5 15% за тек.

2.1 Әеиисіз (II) $m = 242$ теиисір
 $жылы = 33,55 \text{ кДж}$

$\frac{24}{33,55} \approx 0,715$

$\frac{11,2}{74,91} \approx 0,149$