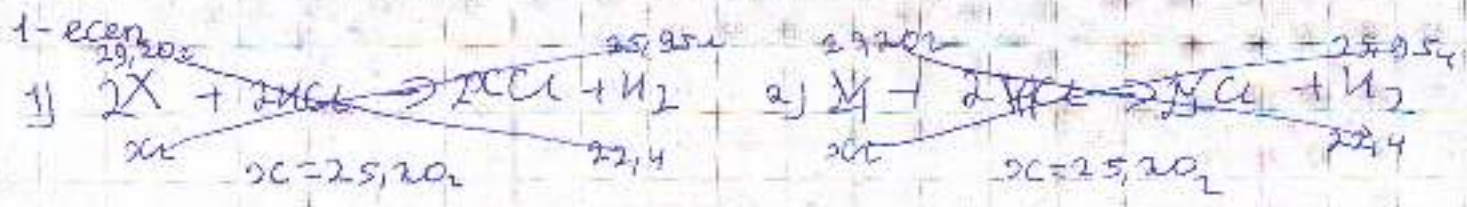


Шешім



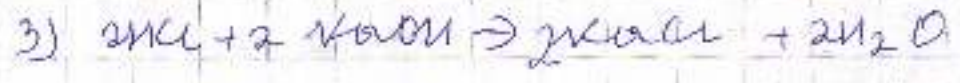
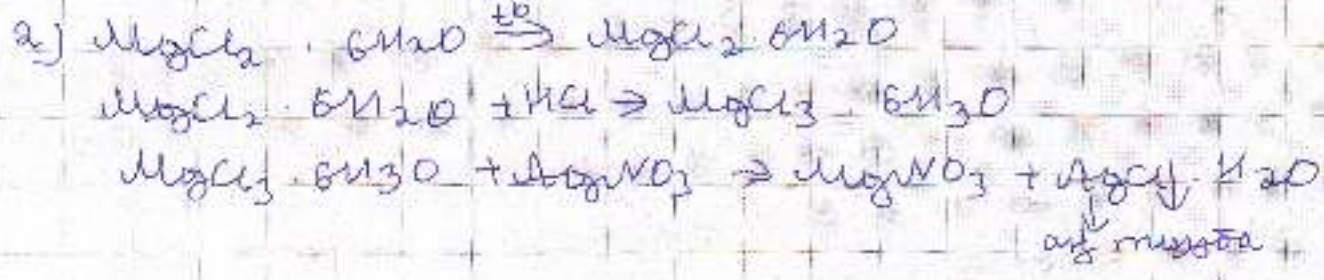
2) $\omega = 25\%$
 $\rho = 1,185 \text{ г/мл}$
 $V = ?$

$V = \frac{m}{\rho} = \frac{25,20}{1,185} = 21,26 \text{ л} = 100\%$
 $\rho = 25\%$
 $n = \frac{V}{V_m} = \frac{25,95}{22,4} = 1,15 \text{ моль}$
 $25,95 = 1,15 \times 22,4$
 $23,20x + 29,20y = 29,20$
 $0,115x + 0,115y = 0,115$

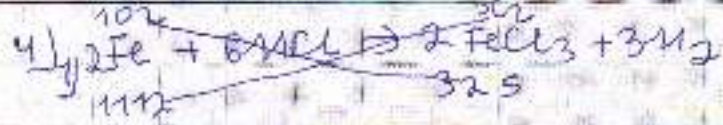
2-есеп
 Есептің берілгенін түсініксіз, шартсыз

3-есеп

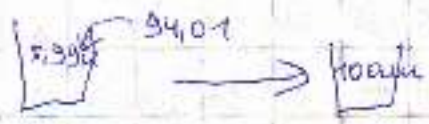
1) $MgCl_2 \cdot 6H_2O = \frac{106,5}{238,5} \cdot 100\% = 44,65\%$



$c = 0,4 \text{ M}$
 $\rho = ?$



$x_2 = \frac{325 \cdot 10}{112} = 29,01$



$\omega = \frac{112}{331} \cdot 100\% = 33,83\%$

$\rho(H_2O) = 3,752 \text{ г/см}^3$

$\omega = 2Fe \cdot 6HCl$

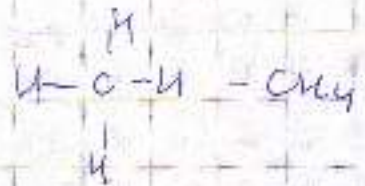
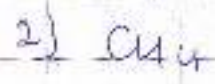
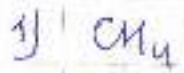
Есен-4

$\rho = 3,752 \text{ г/см}^3$

$v = 1 \text{ м}$

Каликусуьльман шевкитбеги миллий рухна устанга арналган вэб / Поле для заполнения решенной задачи

$\rho = \frac{m}{V}$
 $m = \rho \cdot V = 3,75 \cdot 1 = 3,75$



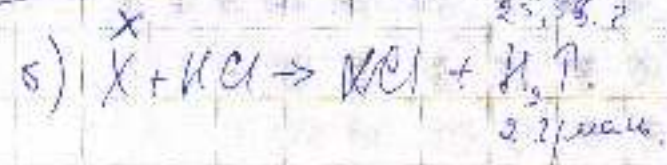
Химия

Тапсырма 1
Бірі.

$m_1(\text{қоспа}) = 29,20 \text{ г}$
 $V(\text{O}_2) = 25,95 \text{ л}$
 $m_2(\text{қоспа}) = ?$
 $m_3(\text{қоспа}) = ?$

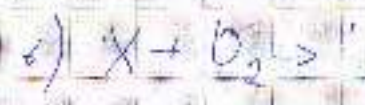


$$w = \frac{m}{M} \cdot 100\%$$



Шешуі.

- $m_2 = 29,20 - 19,44 = 9,76 \text{ г}$
- $m_3 = 29,20 + 28,43 = \cancel{57,63} \text{ г}$
- $w_1(\text{қоспа}) = \frac{29,20}{9,76} \cdot 100\% = 299\%$
 $\frac{9,76}{29,20} \cdot 100\% = 33,4\%$
- $w_2(\text{қоспа}) = \frac{57,63}{29,20} \cdot 100\% = 197,36\%$



Тапсырма 2.
Бірі.

$w(\text{C}) = 67,61\%$
 $w(\text{H}) = 19,01\%$
 $w(\text{X}) = 20,2\%$
 $m(\text{B}) = 5 \text{ г}$
 $m(\text{B} \cdot n\text{H}_2\text{O}) = 9,84 \text{ г}$

Шешуі.

- $w(\text{H}_2) = 100\% - (67,61 + 19,01) = 13,38\%$
 $\frac{67,61}{12} : \frac{13,38}{4} : \frac{19,01}{38,5}$
 $5 : 13 : 1$
 $\frac{5}{1} : \frac{13}{1} : \frac{1}{1}$
 $5 : 13 : 1$
 $\text{C}_5\text{H}_{13}\text{Cl} - \text{D}$

2) B - зәйтүн.



Қызылорда

Тапсырма 3

Бірі

- $m(A) = 0,234 \text{ г}$
- $V(\text{HCl}) = 50 \text{ мл}, 0,1 \text{ M}$
- $V(\text{1-ерітінді}) = 100 \text{ мл}$
- $m(\text{B}) = 0,632 \text{ г}$
- $V(\text{NaOH}) = 120 \text{ мл}, 0,01 \text{ M}$
- $m(\text{дешадит}) = 10 \text{ г}$
- $V(\text{K}_2\text{Cr}_2\text{O}_7) = 13,7 \text{ мл}, 0,01 \text{ M}$
- $m(\text{ерітінді}) = 20 \text{ мл}$

Шешуі

- 1) $\text{MgCl}_2 \cdot 6\text{H}_2\text{O} \xrightarrow{200^\circ\text{C}} \text{MgCl}_2 + 6\text{H}_2\text{O}$
- $m(A + \text{MgCl}_2) = 0,234 \text{ г}$
- 2) $\text{MgCl}_2 + \text{KCl} \rightarrow$
- $V(\text{1-ерітінді } \text{MgCl}_2) = 100 \text{ мл}$
- 3) $\text{MgCl}_2 + \text{AgNO}_3 \rightarrow \text{Mg}(\text{NO}_3)_2 + \text{AgCl}$
- 4) $\text{MgCl}_2 + 2\text{NaOH} \rightarrow \text{Mg}(\text{OH})_2 + 2\text{NaCl}$

Тапсырма 4

Бірі

- $\rho(X) = 3,75 \text{ г/мл}$
- C_xH_y
- $D = 14$

Шешуі

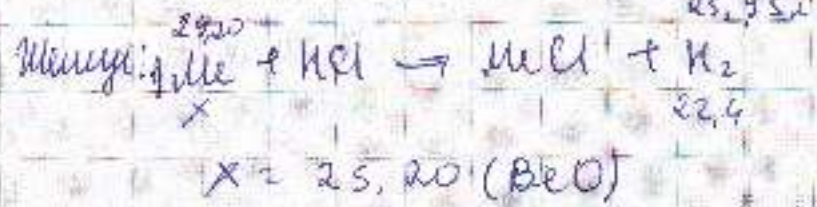
- ~~$D = 14 \cdot 3,75 = 52,5$ (C_xH_y) $D_{\text{H}} = 1$~~
- ~~$M_r(\text{C}_x\text{H}_y) = 52,5$~~
- ~~$4x : 12 = 3,75$~~
- ~~$12 : 3 = 36$~~
- ~~$4x - 36 = 8$~~
- ~~C_3H_8~~
- $D = 14 \cdot 3,75 = 52,5$
- $M_r(\text{C}_x\text{H}_y) = 52,5$
- $\frac{52,5}{12} = 4 \text{ (C)}$
- $(\text{H}) = 52 - (12 \cdot 4) = 4$



Задача

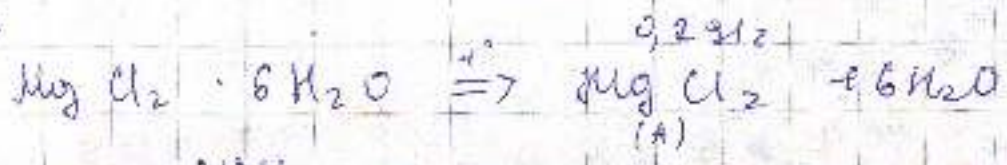
N1

Примени:
 $m(\text{Be} + \text{Be}) \rightarrow 29,20 \text{ г}$
 $n(\text{H}_2) = 25,95 \text{ л}$
 $m(\text{окисл.}) = -19,44$
 $\Delta m(\text{окисл.}) = +28,43$

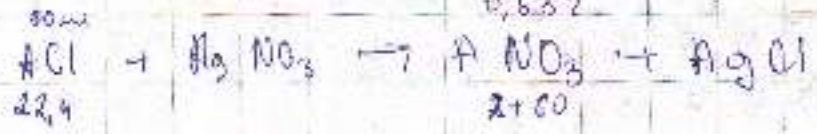


2) $V(\text{HCl}) = \frac{V \cdot \rho \cdot m}{100} = \frac{25 \cdot 1,135 \cdot 56}{100} = 16,59$

N3



$m(\text{HCl}) = 0,005 \cdot 36,5 = 0,1825$ $n = 0,1 \cdot 0,05 = 0,005$



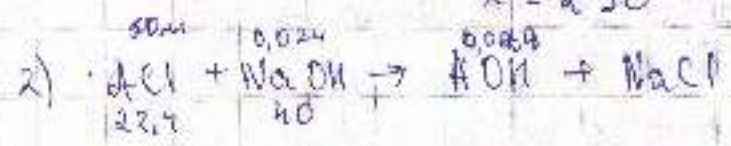
$0,05 \cdot x + 60 = 22,4 \cdot 0,632$

$0,05 \cdot x + 60 = 14,5$

$0,05x + 3 = 14,5$

$0,05x = 11,5$

$x = 230$



$\text{A} = \text{MgCl}_2$

(V) 2 м 0,05 M

$n = 0,012 \cdot 0,05 = 0,0006$

$m = 0,0006 \cdot 40 = 0,024$

Х И М И Я

Дано:

$m(\text{смеси}) = 29,20 \text{ г}$
 $V(\text{H}_2) = 25,95 \text{ л}$
 $m_2(\text{смеси}) = ?$
 уменьшил 19,44 г
 $m_3(\text{смеси}) = ?$
 уменьшил на 28,43 г
 Найти
 x и $y = ?$
 $W(\%) = ?$

Решение

$x(\text{Na})$ $y(\text{K})$

$m = n \cdot M$ $n = \frac{V}{V_m}$

$W = \frac{m(\text{в})}{m(\text{смеси})} \cdot 100\%$

$W = \frac{V(\text{г})}{V(\text{смеси})} \cdot 100\%$



$n(\text{смеси}) = \frac{29,20}{M(\text{смеси})} = \frac{29,20}{M(\text{Na}) + n(\text{K})} = \frac{29,20}{23 + 39} = 0,47 \text{ моль}$

$n(\text{H}_2) = \frac{25,95}{22,4} = 1,158 \text{ моль}$

соотношение Na и K

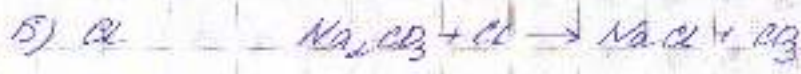
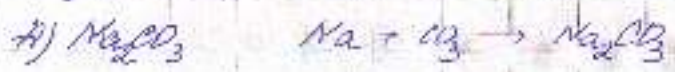
$n(\text{Na}) = 2 \cdot 1,158 = 2,316 \text{ моль}$

$n(\text{K}) = 2 \cdot 1,158 = 2,316 \text{ моль}$

$W(\text{Na}) = \frac{2,316}{29,20} \approx 5\%$

$W(\text{K}) = \frac{2,316}{29,20} \approx 5\%$

Задача 2.



B) NaCl



P) +

X) +

K) -

Задача 3.



$m(\text{MgCl}_2) = 0,291 \text{ г}$

$W(\text{Cl}) = ?$

$W = \frac{M(\text{Cl}) \cdot n(\text{Cl})}{M(\text{MgCl}_2)}$

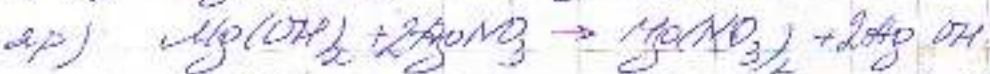
$W(\text{Cl}) = \frac{35,5 \cdot 2}{95} = 0,747$

$M(\text{MgCl}_2) = 24 + 35,5 \cdot 2 = 95$

или 74,7%

Заряд 3

ХИМИЯ



$\text{pH} = ? \quad K = 0,1 \text{ M}$



$\text{pH} = -\log [\text{H}^+]$

$[\text{H}^+] = 0,1 \text{ M}$

$\text{pH} = -\log 0,1 = -\log 10^{-1} = 1$

$\text{pH} = ? \quad K = 0,5 \text{ M}$



$\text{pOH} = -\log [\text{OH}^-]$

$[\text{OH}^-] = 0,5 \text{ M}$

$\text{pOH} = 2 \cdot -\log 0,5 = 2 \cdot \log 2$
 $= 2 \cdot 0,3 = 0,6$

$\text{pH} = 14 - 0,6 = 13,4$

Заряд 4

$D (\text{см}^3/\text{кг}) = 3,75$

$12n + 2n + n = 3,75 \cdot 29$

ХҮМИЯ

1) Фазно!

$$m_{\text{кисл}} = 29.2 \text{ г}$$

$$V(\text{H}_2) = 25.95 \text{ л (н.у., 1 атм)}$$

29.2 г



25.95 л

$$n(\text{H}_2) = \frac{PV}{RT} = \frac{101.3 \cdot 25.95}{8.31 \cdot 293} = 1.08 \text{ моль}$$

значит, $n(\text{HCl}) = 1.08 \cdot 2 = 2.16 \text{ моль}$

в реакцию вошло 19.44 г (HCl)

Зиялы

1.1 -

1.2

H, C, O

по-моему считается смешанно

H₂O, CO₂

при 25% V=95

A	Б	В	Г	Д	Е	Н
Al	C	Ca	M	D	жесткая	все H ₂ O
Алюминий	Железо	кальций			железо	

3.1

3.2

3.3

3.4

m Cl = 3.25

длина
ит. жана
малы, су
бары-60 А

pH 2

Al
Zn
Cu

29.20 - 25.95 =
= 3.25

4.1

4.2

4.3

4.4

