

1,1 $\eta(Zn) = \frac{40}{65} = 1,07\%$ $\eta(S) = \frac{30}{32} = 0,9375$

h-001

1,2

1,3

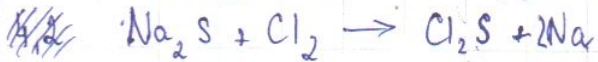
2,1 $m(H_2SO_4) = 60,460$

2,2

3,1 $Q = mc_s \Delta t = Q = 1,7 \cdot 4186 \cdot (100 - 25) = 523715 \text{ Дж}$

3,2

3,3



4,2 Дана :

1) $m_1(\text{Zn}) = 70\text{g}$
 $m_2(\text{S}) = 30\text{g}$

Решение:

$w = m \cdot M = 70 \cdot 0,03 = 4550 \text{ жана}$

$w = m \cdot M = 30 \cdot 32 = 960 \text{ жана}$

~~$w = 4550$~~

Найти:
 $w(\text{Zn}) = ?$
 $w(\text{S}) = ?$
 $\rho = ?$

2) Дано

Решение:

$m(\text{HNO}_3) = 52$

$m(\text{H}_2\text{SO}_4) = \frac{M}{100} = \frac{2 \cdot 16 + 32 + 4 \cdot 16}{100} = 97$

Найти:
 $n(\text{H}_2\text{SO}_4) = ?$
 $V = ?$

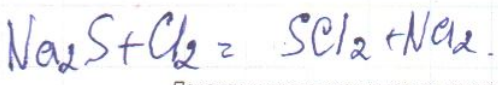
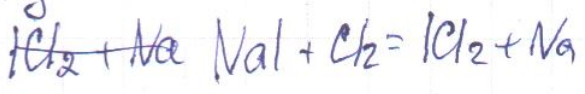
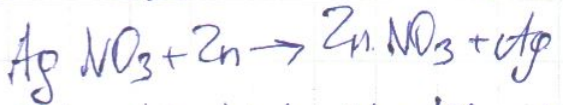
3) Дано:

Решение:

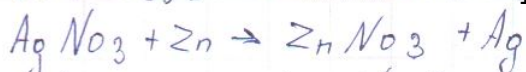
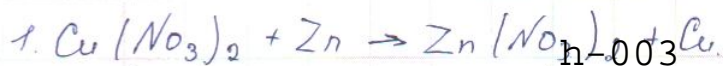
$Q = ?$
 $m = 1,7 \text{ кг}$
 $t_1 = 25^\circ\text{C}$
 $t_2 = 100^\circ\text{C}$
 $c_s = 4186 \text{ Дж} \cdot \text{кг}^{-1} \cdot \text{K}^{-1}$

$Q = mc_s \Delta T$
 $Q = 1,7 \cdot 4186 \cdot 75 = 0,491650$

Ответ: 0,491650



№4.



$$\text{№1. } \frac{70 \cdot 20}{100} = \frac{2100}{100} = 21$$

$$\text{HBr} = 80.912$$

№2.

$$m = n \cdot m_r$$

$$m = \text{H}_2\text{SO}_4 - \text{HNO}_3$$

$$m = \cancel{32.064} \cdot 5 \cdot 32.064 = 161,570$$

$$\text{№3. } Q = m \cdot c \cdot \Delta T$$

$$\Delta T = T_2 - T_1$$

$$1. \Delta T = T_2 - T_1$$

$$\Delta T = 100 - 25$$

$$1,7 \text{ кг} \cdot 4186 \text{ Дж} \cdot \text{кг}^{-1} \cdot 75 = 309100$$

$$2. Q = m \cdot L_f$$

$$350 \text{ г} \cdot 3,36 \cdot 10^5 \text{ Дж} \cdot \text{кг}^{-1}$$

$$3. 10.5$$

$\sqrt{1}$
 $m(S) = 302$
 $m(T_1) = 702$
 $(m = \frac{70}{30} = 2,1)$

h-004

1.2

$m(2mS) = 85 + 32 = 97$

1.3

$(\text{BAAAR AATAG}) \rho = 97,5 \text{ г/см}^3$

$\sqrt{2.1}$

$m(0) = 52$
 $m = \frac{32}{5} = 6,22$

$\sqrt{2.2}$

$N_a = 20\%$
 $0 - 52$
 $\frac{52}{20\%} = 1,2192 \text{ г/см}^3$

$\sqrt{3.1}$

$m = 1,7 \text{ кг}$
 $Q = m L_f = 1,7 \cdot 25 \cdot 100 = 4,25 \cdot 100 = 42,50$

$t_1 = 25^\circ\text{C}$
 $Q = m \Delta T = 1,7 \cdot 75 = 13,05$

$t_2 = 100^\circ\text{C}$
 $Q = m \Delta T = 1,7 (T_2 - T_1) = 1,7 \cdot (100 - 25) = 1,7 \cdot 75 = 12,95$

$\sqrt{3.2}$

$(\frac{32}{5} = 6,22)$

$Q = m L_f = 3,36 \cdot 10^5 \text{ Дж м}^{-1} \cdot 4186 \text{ Дж м}^{-1} \cdot 0 = 0^\circ \text{ Дж м}^{-1}$