

X - 11 - 7

Unumapal, p. 100

no name

(supplementary name)

name 1, 2, 3, 4

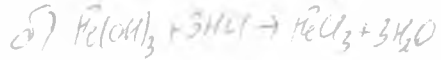
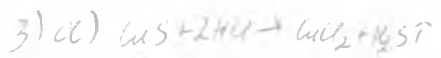
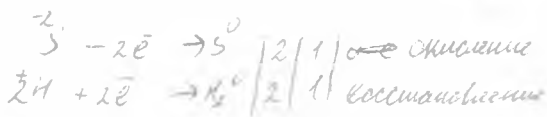
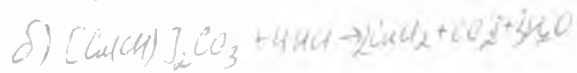
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Unumapal, p. 100

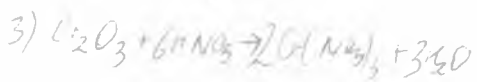
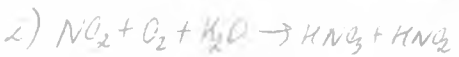
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Unumapal, p. 100

№11-1.



№11-2.



Дано:

$w(\text{HCl}) = 35,2\%$

$\rho_{\text{р-ра}}(\text{HCl}) = 1,18 \text{ г/мл}$

$m(\text{Me}) = 2,42 \text{ г}$

$m(\text{MeS}) = 3,6 \text{ г}$

$m(\text{MeCl}_2) = ?$

$V_{\text{р-ра}}(\text{HCl}) = ?$

$\text{Me} = ?$

Решение: №11-4



$n(\text{MeCl}_2) = n(\text{Me}) \Rightarrow \frac{2,4}{M(\text{Me})} = \frac{3,6}{M(\text{Me}) + 32}$
 $n(\text{MeS}) = n(\text{MeCl}_2)$

$12M(\text{Me}) = 268$

$M(\text{Me}) = 64$

$n(\text{Cu}) = \frac{m}{M} = \frac{2,4}{64} = 0,375 \text{ моль}$

$n(\text{Cl}_2) = n(\text{Cu}) = 0,375 \text{ моль}$

$n(\text{HCl}) = 4n(\text{Cl}_2) = 1,5 \text{ моль}$

$m(\text{HCl}) = n \cdot M = 1,5 \cdot 36,5 = 54,75 \text{ г}$

$m_{\text{р-ра}}(\text{HCl}) = \frac{m(\text{HCl})}{w(\text{HCl})} = \frac{54,75}{0,352} = 155,54 \text{ г}$

$V_{\text{р-ра}}(\text{HCl}) = \frac{m_{\text{р-ра}}}{\rho_{\text{р-ра}}} = \frac{155,54}{1,18} = 131,81 \text{ мл}$

$n(\text{CuO}_2) = n(\text{Cl}_2) = 0,375 \text{ моль}$

$m(\text{CuO}_2) = n \cdot M = 0,375 \cdot 87 = 32,625 \text{ г}$

Итак: $m(\text{CuO}_2) = 32,625 \text{ г}$; $V_{\text{р-ра}}(\text{HCl}) = 131,81 \text{ мл}$; $\text{Me} - \text{Cu}$

№11-3

1) $K_h = \frac{[\text{COCl}_2]}{[\text{CO}][\text{Cl}_2]} = \frac{1}{0,2} = 5$

2) $P = \frac{RT}{V} = \frac{8,314 \cdot 313}{1,4} = 1830,45 \text{ кПа}$

$T = 313^\circ \text{K}$

$C_{\text{об}} = 1,4 \text{ моль/л}$

3)

и) $[\text{COCl}_2] = \frac{1}{2} = 0,6 \text{ м}$

$[\text{CO}] = 0,2 + 0,6 = 0,8 \text{ м}$

$[\text{Cl}_2] = 0,3 + 0,6 = 0,9 \text{ м}$

2

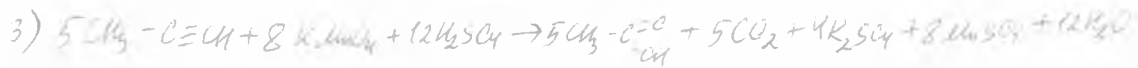
№ 1-5



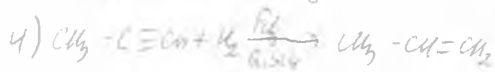
$\text{X}_2 - \text{CH}_3\text{-C}\equiv\text{C-Ag}$ - аргентид ацетилена



$\text{X}_4 - \text{CH}_3\text{-C(=O)-CH}_3$ - ацетон, глиоксаль



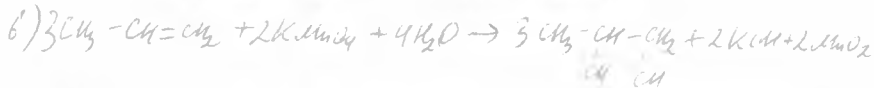
$\text{X}_2 - \text{CH}_3\text{-C(=O)-OH}$ - уксусная кислота



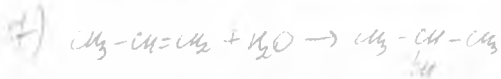
$\text{X}_3 - \text{CH}_3\text{-CH=CH}_2$ - пропен



$\text{X}_6 - \text{CH}_3\text{-CH}_2\text{-CH}_2\text{-Br}$ - 1-бромпропан



$\text{X}_5 - \text{CH}_3\text{-CH(OH)-CH}_2\text{OH}$ - 1,2-пропандиол



$\text{X}_4 - \text{CH}_3\text{-CH(OH)-CH}_3$ - 2-пропанол, метанол



$\text{X}_7 - \text{CH}_3\text{-CH}_2\text{-CH}_2\text{-CH}_2\text{-CH}_2\text{-CH}_3$ - гексан



$\text{X}_9 - \text{CH}_3\text{-C}\equiv\text{C-CH}_2\text{-CH}_2\text{-CH}_3$ - 2-гептин



$\text{X}_{10} - \text{CH}_3\text{-CH}_2\text{-CH}_2\text{-C(=O)-CH}_2\text{-CH}_2\text{-C(=O)-CH}_3$ - дигетерокетон, масляная кислота

15

Всего 33

Проблемы
Members
Parameters