

CH 260

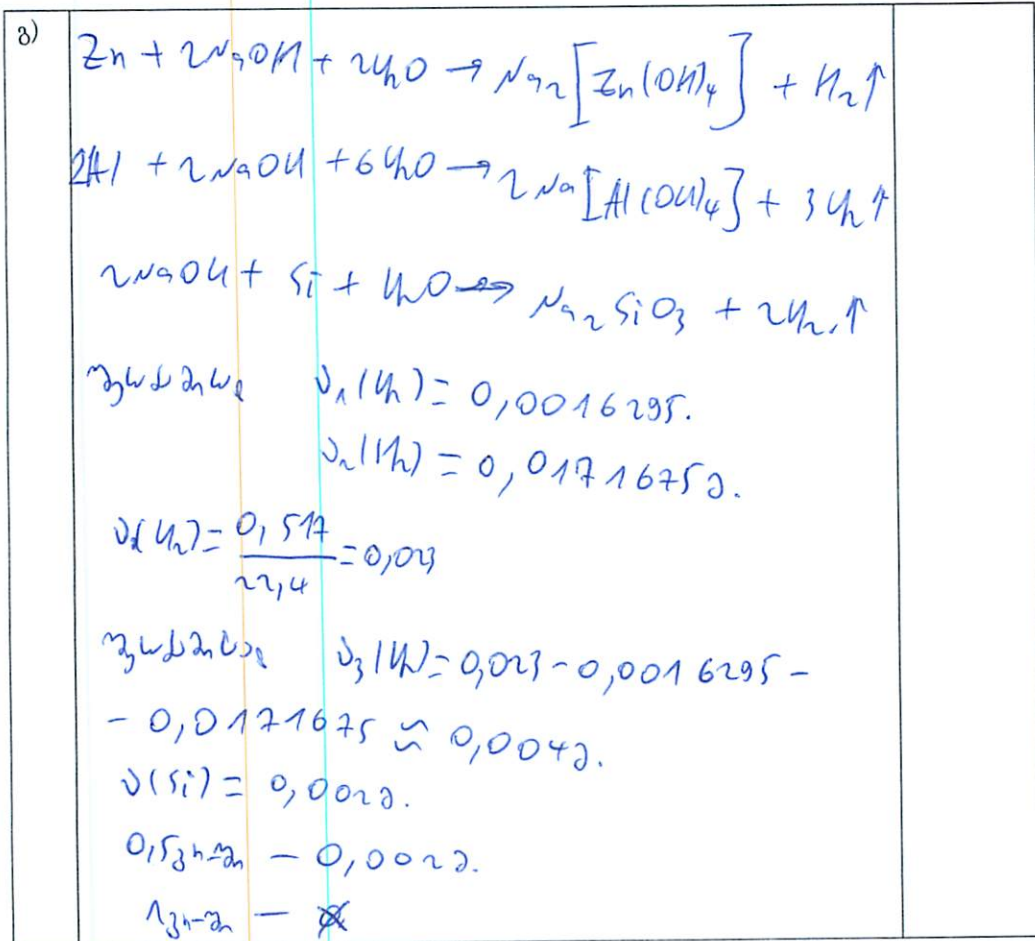
მარტის #: 4

სამსახური 1.

2 ქულა

	$N \equiv N + 2 H-H \rightarrow H-\overset{H}{N}-\overset{H}{N}-H$	
დაწყ	$944 + 2 \cdot 476 = 1816 \text{ სტ/ა.}$	
შედეგ	$4 \cdot 388 + 163 = 1215 \text{ სტ/ა.}$	
	$\Delta H = -101 \text{ სტ/ა.}$	

<p>ა)</p>	<p> <math>m_1(\text{ზინკი}) = 1.3 \text{ გ.}</math>  <math>m_2(\text{ალუმინი}) = 0.53 \text{ გ.}</math>  <math>V_1(\text{H}) = 0.843 \text{ ე.}</math>  <math>V_2(\text{H}) = 0.514 \text{ ე.}</math>  <math>m(\text{ბუნარი}) = 0.1173 \text{ გ.}</math> </p> <hr/> <p> <math>\omega(\text{H}) = ?</math> <math>\omega(\text{Al}) = ?</math>  <math>\omega(\text{Zn}) = ?</math> <math>\omega(\text{Al}) = ?</math> </p> <p> <math>1) \text{Zn} + 2\text{HCl} \rightarrow \text{ZnCl}_2 + \text{H}_2 \uparrow \quad \nu(\text{H}) = 0.0376 \text{ ე.}</math>  <math>2\text{Al} + 6\text{HCl} \rightarrow 2\text{AlCl}_3 + 3\text{H}_2 \uparrow \quad \nu(\text{Al} + \text{Zn}) = 0.833 \text{ გ.}</math> </p> <p> <math>\nu(\text{Zn}) = x</math> <math>\nu(\text{Al}) = y</math> </p>	
<p>ბ)</p>	<p> <math>\begin{cases} x + 1.5y = 0.0376 \\ 65x + 27y = 0.83 \end{cases} \quad \begin{array}{l} -65 \\ + \\ \hline -70.5y = -1.614 \\ y = 0.02289 \\ x = 0.0376 - 1.5y \\ x = 0.003259 \end{array}</math> </p> <p> <math>1.5y = 0.0376 - 1.5y \quad \nu(\text{Zn}) = 0.003259 \text{ გ.} \quad \nu(\text{Al}) = 0.02289 \text{ ე.}</math> </p> <p> <math>0.15y = 0.003259 \quad \nu(\text{Zn}) = 0.0016295 \quad \nu(\text{Al}) = 0.011445 \text{ ე.}</math> </p>	



$$x = 0,0043$$

$$m(\text{Si}) = 0,11763 \text{ շն} \quad W = 11,76 \%$$

$$m(\text{Al}) = 0,6183 \text{ շն} \quad W = 61,8 \%$$

$$m(\text{Zn}) = 0,2118 \text{ շն} \quad W = 21,18 \%$$

$$W(\text{Cu}) = 100\% - 11,76\% - 61,8\% - 21,18\% = 5,26\%$$

ა)	$\text{CH}_3\text{COOH} + \text{O}_2 \rightarrow 2\text{CO}_2 + 2\text{H}_2\text{O}$ $\Delta Q = 2(393,5 + 241,8) - 484,2 = 786,6$ $m_{\text{CO}_2} = 786,6,5 \text{ ————— } \nu(\text{O}_2) = 2,7$ $275,9,5 \text{ ————— } X$	
ბ)	$X = 0,62. \quad M(\text{CH}_3\text{COOH}) = 60,3/8$ $\nu(\text{CH}_3\text{COOH}) = 0,32 \cdot 60,3/8 = 18,3 \text{ გ.}$ $\nu_1(\text{O}_2) = 0,62 \quad m = 0,62 \cdot 32,0/8 = 19,2 \text{ გ.}$ $PV = \nu RT \quad \nu(\text{O}_2) = 10$ $\nu = \frac{PV}{RT}$	
გ)	$\nu(\text{O}_2) = \frac{104,1 \cdot 10}{8,314 \cdot 313} \approx 0,42.$ $m_2(\text{O}_2) = 0,4 \cdot 32 = 12,8 \text{ გ.}$ $M(\text{O}_2) = 19,2 + 12,8 = 32 \text{ გ.}$ $m(\text{CH}_3\text{COOH}) = 50 \text{ გ.}$ $\omega(\text{CH}_3\text{COOH}) = \frac{18}{50} \cdot 100\% = 36\%$ $\omega(\text{O}_2) = \frac{32}{50} \cdot 100\% = 64\%$	

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გ)		
დ)		



ა)	$A + B \rightarrow C + D$	
ბ)	სადაცაა მუქი ნიშანი.	
გ)	სადაცაა მუქი ნიშანი.	
დ)	<p>1) <math>100 - 40 = 60.</math>                  2) <math>80 - 40 = 40.</math>                  3) <math>40 - 20 = 20.</math></p>	
ე)	<p>სადაცაა მუქი ნიშანი <math>A \cup B.</math>                  სადაცაა მუქი ნიშანი <math>E</math>                  სადაცაა მუქი ნიშანი <math>C \cup D</math>                  სადაცაა მუქი ნიშანი <math>F.</math></p>	

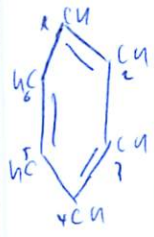


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აზოცანა 5.

8 ქულა

ა)		ნიშ $C_1 \equiv C_2$ $C_1 \equiv C_4$ $C_5 \equiv C_6$ $C_1 \equiv C_6$ $C_2 \equiv C_3$ $C_5 \equiv C_6$	
ბ)	6 სივრცე		
გ)			
დ)			