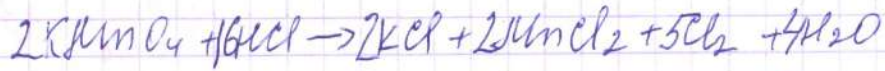


14^б из 32^б

Олимпиадная работа
по химии
ученица 11 класса
Кардамова
Майя.

N1.



Oxidation: 4.

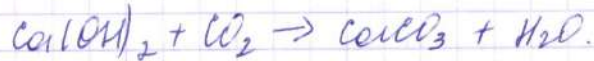
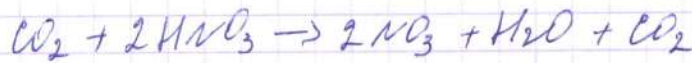
15

N2.

Oxidation: 4.

15

N3-



Oxidation: 2.

15

N4.-1

15

N5-3

15

N6-1

15

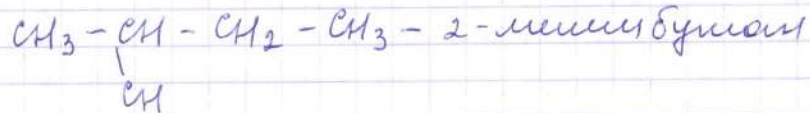
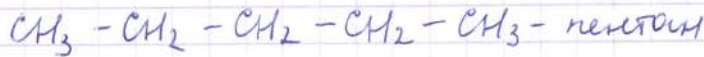
N7-4

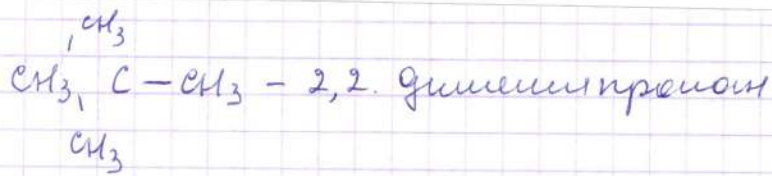
05

N8-

Задание.

N1.





Наибольшая температура кипения у пентана.
 Плотность по воздуху 2.48. 55

Задача 2.

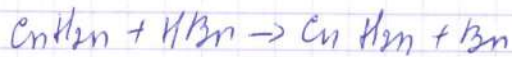
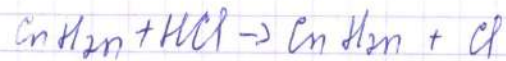
Дано:

$$n(\text{C}_n\text{H}_{2n} + \text{Cl}) = 5,23 \text{ г}$$

$$n(\text{C}_n\text{H}_{2n} + \text{Br}) = 8,2 \text{ г}$$

$\text{C}_n\text{H}_{2n} - ?$

Решение:



$$n(\text{C}_n\text{H}_{2n} + \text{Cl}) = n(\text{C}_n\text{H}_{2n} + \text{Br})$$

$$n(\text{C}_n\text{H}_{2n} + \text{Cl}) = \frac{5,23}{14n + 36,5}$$

$$n(\text{C}_n\text{H}_{2n} + \text{Br}) = \frac{8,2}{14n + 81}$$

$$\frac{5,23}{(14n + 36,5)} = \frac{8,2}{14n + 81}$$

$$\Rightarrow n = 3.$$

Ответ: C_3H_6 . 35

Задача 3