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Дано:

$$O_2 = 24,6 \text{ г.}$$

$$m(\text{H}_2\text{O}) = 9 \text{ г}$$

$$V(\text{N}) = 2,24 \text{ л.}$$

$$V(\text{N}_2) = 5,49 \text{ л.}$$

Найти:

ОР - ?

Задача 2.

Решение.

$$n(\text{CO}_2) = \frac{26,88}{22,4} = 1,2 \text{ моль.}$$

$$m(\text{CO}_2) = 1,2 \cdot 44 = 52,8 \text{ г.}$$

$$n(\text{NO}_2) = \frac{2,24 \text{ л}}{22,4 \text{ л}} = 0,1 \text{ моль.}$$

$$m(\text{NO}_2) = 0,1 \cdot 46 = 4,6 \text{ г.}$$

$$n(\text{H}_2\text{O}) = \frac{9}{18} = \frac{1}{2} = 0,5 \text{ моль.}$$

$$n(\text{C}) = n(\text{CO}_2) = 1,2 \text{ моль}$$

$$n(\text{N}) = n(\text{N}_2) = 0,2 \text{ моль.}$$

$$n(\text{H}) = n(\text{H}_2\text{O}) = 1 \text{ моль.}$$

$$m(\text{O}) = 24,6 - (14,4 + 2,8 + 1) = 6,4 \text{ г.}$$

$$n(\text{O}) = \frac{6,4}{16} = 0,4 \text{ моль.}$$

$$n(\text{C}) = n(\text{H}) = n(\text{N}) = 1,2 : 1 : 0,2 : 0,4 = \\ = 6 : 5 : 1 : 2.$$



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Ответ: $\text{C}_6\text{H}_5\text{NO}_2$.

Задача 5.

1 Г 25 3 З - 5 Б 25 7 В 25 9 А -
 2 Е 25 4 Д 25 6 А - 8 К - 10 К -

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$$M_{A,1} = \frac{85 \cdot 25}{10} = (2125) \text{ N}$$

$$M_{A,2} = 2125 \cdot 2 = (4250) \text{ N}$$

$$M_{A,3} = \frac{145 \cdot 25}{10} = (3625) \text{ N}$$

$$M_{A,4} = 2125 \cdot 1,0 = (2125) \text{ N}$$

$$M_{A,5} = \frac{1}{2} \cdot \frac{25}{81} = (0,15) \text{ N}$$

$$M_{A,6} = (0) \text{ N} = (0) \text{ N}$$

$$M_{A,7} = (25) \text{ N} = (25) \text{ N}$$

$$M_{A,8} = (0) \text{ N} = (0) \text{ N}$$

$$M_{A,9} = (2 + 2 + 2 + 2 + 2) \cdot 25 = (250) \text{ N}$$

$$M_{A,10} = (0) \text{ N}$$

$$M_{A,11} = (0) \text{ N} = (0) \text{ N} = (0) \text{ N}$$

$$M_{A,12} = (0) \text{ N}$$

$$M_{A,13} = (0) \text{ N}$$

Определить...