

1.

1.

$$D(x) = D(x) * ( ) \quad (1)$$

2.

$$n(C) = \frac{M(e) * m(CO_2)}{m(e) * M(CO_2)} \quad (2)$$

3.

$$n(C) = \frac{M(e) * V(CO_2)}{m(e) * Vm} \quad (3)$$

4.

$$n( ) = 2 \frac{M(e) * m(H_2O)}{m(e) * M(H_2O)} \quad (4)$$

5.

$$(1), \quad (1),$$

6.

$$( . . ), 1,35 \quad 2,37 \quad 3,36 \quad (IV) \quad 2,724.$$

7.

$$m( - ) = 2,37$$

$$V(CO_2) = 3,36$$

$$m(H_2O) = 1,35$$

$$D( . ) = 2,724.$$

8.

$$CxHyNz$$

$$( ) = 29 /$$

$$( 2 ) = 18 /$$

$$Vm = 22,4 /$$

9.

$$1. \quad (1)$$

$$M( - ) = 29 / * 2,724 = 79 /$$

(3)

$$n(C) = \frac{79g / моль * 3,36л}{2,37g * 22,4л / моль} = 5$$

2. (4)

$$n(\text{C}) = \frac{79 \text{ г / моль} \cdot 1,35 \text{ г}}{2,35 \text{ г} \cdot 18 \text{ г / моль}} = 5$$

3.  $\text{C}_5\text{H}_5$

$$M(\text{C}_5\text{H}_5) = 12 \cdot 5 + 1 \cdot 5 = 65 /$$

4. (5)

$$79 - 65 = 14. \dots - 14,$$

:  $\text{C}_5\text{H}_5\text{N}$

N.

2

1.

$$M(\text{C}_x\text{H}_y) = D(x) \cdot M(\text{C}) + D(y) \cdot M(\text{H}) \quad (1)$$

2.

$$w(\text{C}) = \frac{M(\text{C}) \cdot w(\text{C})}{M(\text{C}_x\text{H}_y)} \cdot 100\%$$

$$n(\text{C}) = \frac{M(\text{C}) \cdot w(\text{C})}{Ar(\text{C}) \cdot 100\%} \quad (2)$$

$$w(\text{H}) = \frac{M(\text{H}) \cdot w(\text{H})}{M(\text{C}_x\text{H}_y)}$$

$$n(\text{H}) = \frac{M(\text{H}) \cdot w(\text{H})}{Ar(\text{H})} \quad (3)$$

3.

4.

(1),

(1), ;

:

82,75%

17,25 %

2.

:

$$w(\text{C}) = 82,75\%$$

$$w(\text{H}) = 17,25\%$$

$$D(\text{C}) = 2$$

:

$$M(\text{C}_4\text{H}_{10}) = 29 /$$

$$M(\text{C}_4\text{H}_{10}) = 12 \cdot 4 + 1 \cdot 10 = 58 /$$

:

1. (1)

$$M(\text{C}_4\text{H}_{10}) = 29 / \cdot 2 = 58 /$$

2. (2)

$$n(\text{ )} = \frac{58 \text{ г/моль} * 82,75\%}{12 \text{ г/моль} * 100\%} = 4$$

3. (2)

$$n(\text{ )} = \frac{58 \text{ г/моль} * 17,25}{1 \text{ г/моль} * 100\%} = 1$$

4.  $4 \text{ } 10$

$$(4 \text{ } 10) = 12 * 4 + 1 * 10 = 58 /$$

5. (1), .

:  $4 \text{ } 10$