

II ()

, 7 - 8

1 (3).

« , »

()

15,23 ,

19,3 / ³.

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| | |
|---|----------|
| () , | |
| 1) $m(\text{Au}) = 15,23 \cdot 197 / 3000$: $m = n \cdot M$: | 1 |
| 2) $V(\text{Au}) = 3000 / 19,3 / 3 = 155$ ³ $V = m / \rho$, | 1 |
| 3) $V(\text{H}_2\text{O}) = 155$ ³ $= 155 = 0,155$ | 1 |
| | 0 |
| | 3 |

2 (4).

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3

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1

7 ,

$V(\text{O}_2) = 250$, $m(\text{O}_2) = m(\text{O}_2)$.

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| | |
|--|----------|
| () , | |
| 1) $m(\text{O}_2) = m(\text{O}_2) = V(\text{O}_2) \cdot \rho(\text{O}_2)$ $m(\text{O}_2) = 250 \cdot 1 / 1 = 250$ | 1 |
| 2) $m(\text{O}_2) = 7 \cdot 3 = 21$ | 1 |

| | |
|--|----------|
| 3) m() = m() + m() m() = 250 + 21 = 271 | 1 |
| 4) () = m() / m() () = 21 / 271 = 0,0775 (7,75 %) | 1 |
| | 0 |
| | 4 |

3 (6).

... , ... , ...
... , ... , ...
... , ... , ...
... , ... , ...
... , ... , ...
... (1,43 /),
... 1 ,
16 ... ,
3500 ³. ()

| | |
|---|----------|
| () , | |
| 1) - 2 | 1 |
| 2)): V() = V() · N(/) · V() = 3500 ³ · 16 ¹ · 60 = 3360 · 10 ³ ³ = 3360 . | 2 |
| 3)) (O ₂) = 0,21 | 1 |
| 4) : V(O ₂) = V() · (O ₂) = 3360 · 0,21 = 705,6 . m(O ₂) = V(O ₂) · (O ₂) = 705,6 · 1,43 / = 1009 . | 2 |
| | 0 |
| | 6 |

4 (8).

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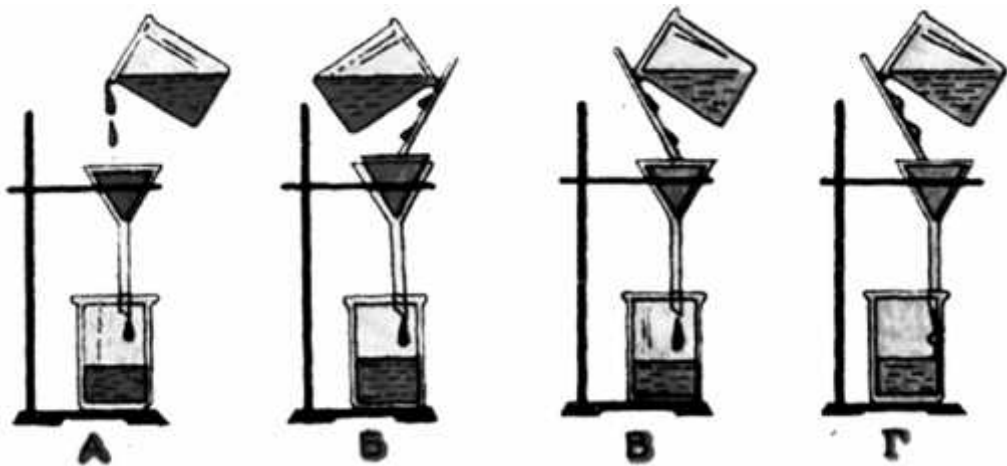
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| | |
|-----|---|
| () | |
| 1) | 2 |
| 2) | $r() = 1,$ $M(H) = 1 /$ 1 |
| 3) | $m_0(H) = r() \cdot 1 \dots = 1 \cdot 1,66 \cdot 10^{-24} = 1,66 \cdot 10^{-24}$ $\overline{m_0(H)} = M(H)/N_A = 1 / / 6,02 \cdot 10^{23}^{-1} = 1,66 \cdot 10^{-24}$ 2 |
| 4) | 3 |
| | 0 |
| | 8 |

5 (9).

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| | |
|----------------|----------|
| () , | |
| 1) . | 1 |
| 2) . | 1 |
| 3) (,) , | 2 |
| 4) () | 2 |
| 5) () , , , , | 1 |
| 6) () , ; , | 1 |
| 7)) , , , | 1 |
| | 0 |
| | 9 |