

3 54

1.

2.

3.

4.

5.

6.

7.

2

2

3 4 2 3

2 +2 2 2 +2 -+ 2

2

2⁺+2 -+2 ++ 4²⁻ 4 +2 2

2 3⁺+ =3 2⁺

2 2

1

2

1

2

2

+

1

2

3N 1

2 1

2⁺ 1

2²

2N 1

2

2

2N 3N

4.48 3

2

$$\frac{4.48}{22.4 /} 0.2$$

0.2 N

0.1 N

4⁻

$$\frac{(+)}{(-)} = 1 \cdot 10^{-11}$$

4⁺

+

3

2⁺

2

2 2 5² 4 4 2 2

xN° 7&@R•°

3²-EdvDff'

2₌₌₌ + 2

2

10.

2



H !• 2 2 2

E 2.02eV

11.

2

2 2 ⇌ 2 4 0

3 □

3 3 5 0.01 1 1 3

5 0.01 1 1 3

0.01 1 1

K () K ()

12.

0.8

1.2

0 2

0.3 mol · L⁻¹ · min⁻¹

×

0.5 0.8 0.8 0.25 1 1 0.4 1 1 0.4

1 1

=10

13.

2 催化剂 2+ 2

15. 7.8×10^2

$2.7 \times 10^1 \times 0.1 \times 10^2 = 2.7 \times 10^2$

$()_3$

$2 \times 0.1 = 0.2$

$(0.2 \div 0.1 = 2)$

16. $200 \times 18 \times 10^1 \times 2 \times 4$

1.8×142.2

17. $2+$

$2+$

$2+$

$2+$

$+$ $2+$ $2+$

18. $n() \div \frac{n()}{()}$

46

19. 9

1 122.5×10^1

2 $\begin{matrix} & H & \\ & \cdot\cdot & \\ H & :C: & H \\ & \cdot\cdot & \\ & H & \end{matrix}$ 1

3 $2 \times 10^5 \times 2 \times 10^6 = 4 \times 10^{11}$

$2.96 \times 10^{-3} \times 10^{-1} = 2.96 \times 10^{-4}$

$3 \times 3 \times 3 = 122.5$

2 10 4 2
 2 3 2 4 - 2
 2 2+5 2+6 2 =5 2 +12 +2 -

200 1 2 $\frac{0.2g}{67.5g/mol} = 0.00296$ 1 2 $2.96 \cdot 10^{-3}$

-1 $2.96 \cdot 10^{-3}$
 -1

20. 14

1 1 1 1
 2 2 1

3 1 $\frac{40}{233}$ 2 1

3 1 1 1

4 1 4 强热 + 3 2

1 70 -80

2 $\frac{2-}{4}$ 2
 4 2

3

2

$(\quad)_4 (\quad)_4 = (\quad)_4 = \frac{\quad}{233}$

$(\quad)_4 = \frac{n}{V} = \frac{\frac{w}{233}}{25 \cdot 10^{-3}} \quad -1 = \frac{40}{233} \quad 1$

4

4 $(\quad)_4$

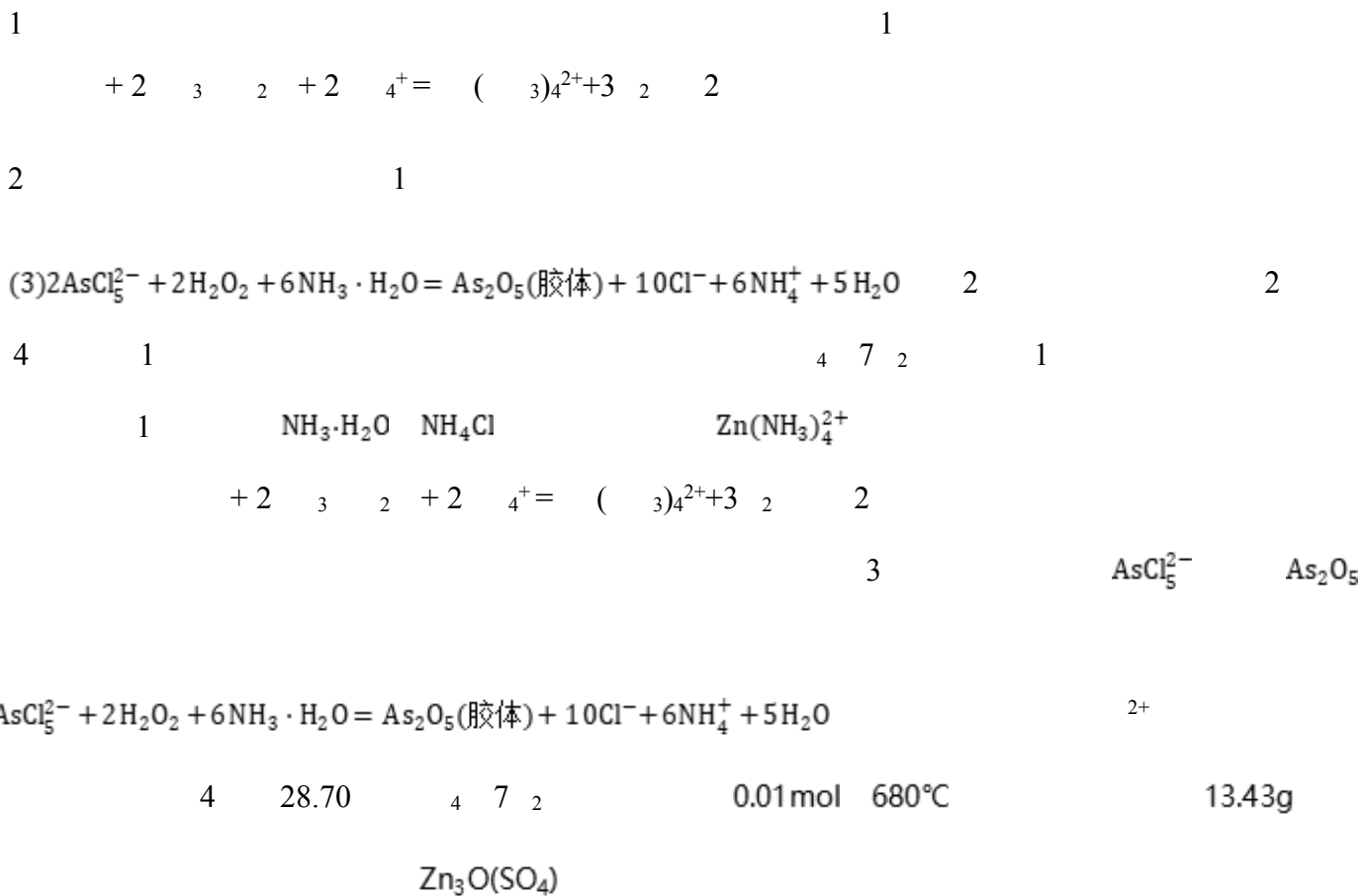
3

4

4 5 2

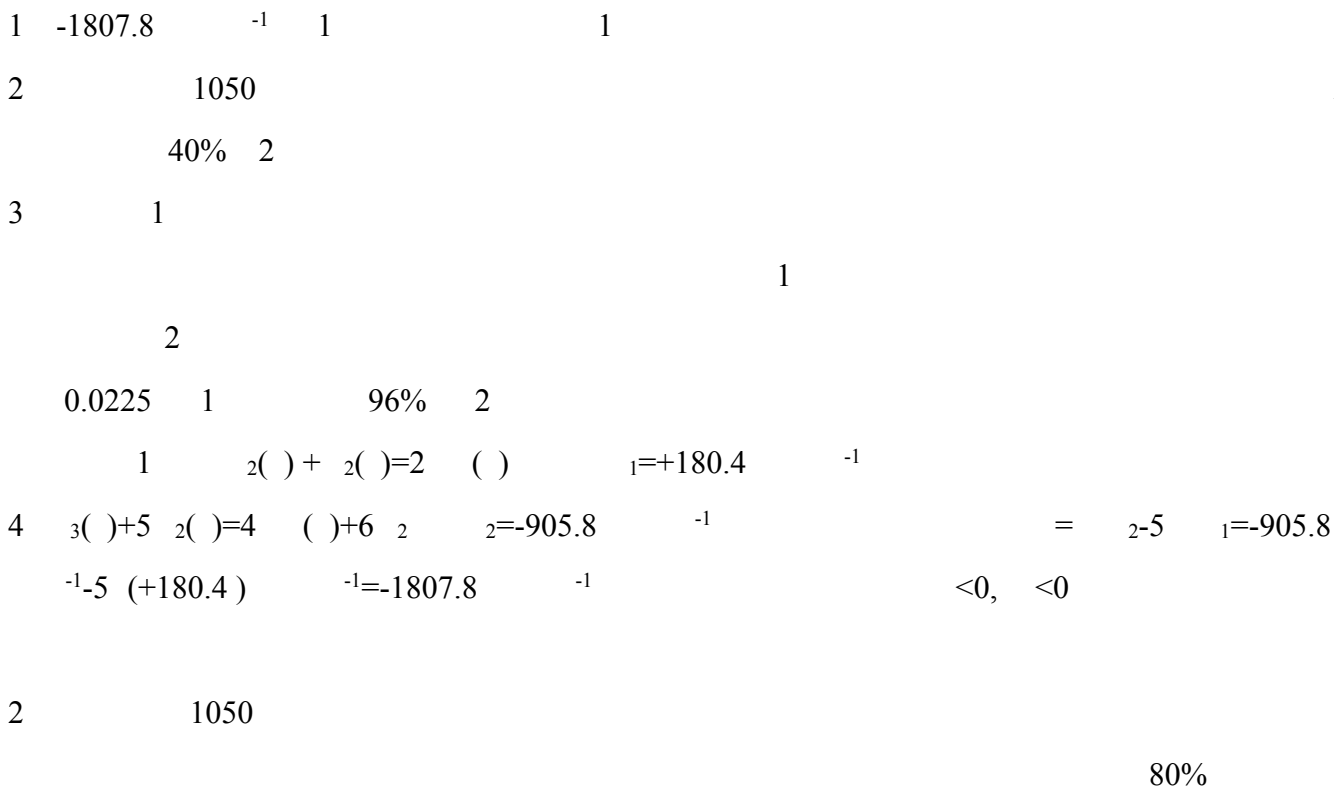
4

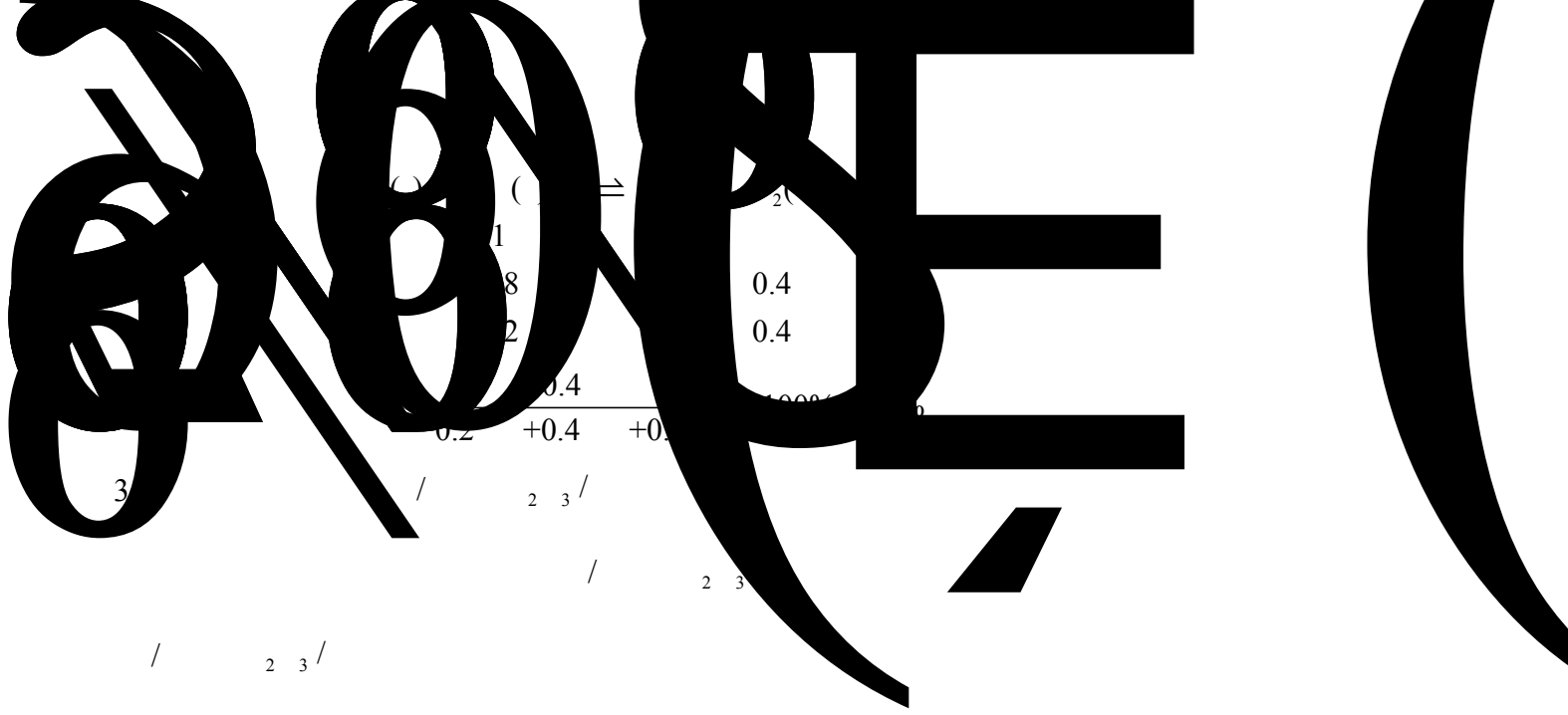
21. 10



4 7 2

22. 13





490

45%

60%

2