

65.

12, 16 .) — ? ( ,  
 28 g 16 g 3 : 4 . 44 g  
 2 L 1 L가 2 L가  
 1 : 2 가 가 ,

66.

(O<sub>2</sub>) 1

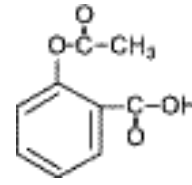
	( )			
6.0 × 10 <sup>23</sup>	22.4 L	32 g	1.2 × 10 <sup>24</sup>	2

16 g 가  
 < > ? ( , 1, 12,  
 16 .)

ㄱ. (H<sub>2</sub>O) 9 g  
 ㄴ. 3.0 × 10<sup>23</sup>  
 ㄷ. (CO<sub>2</sub>) 0.25  
 ㄹ. (H<sub>2</sub>) 22.4 L

ㄱ, ㄴ    ㄱ, ㄷ    ㄱ, ㄹ    ㄴ, ㄷ    ㄴ, ㄹ

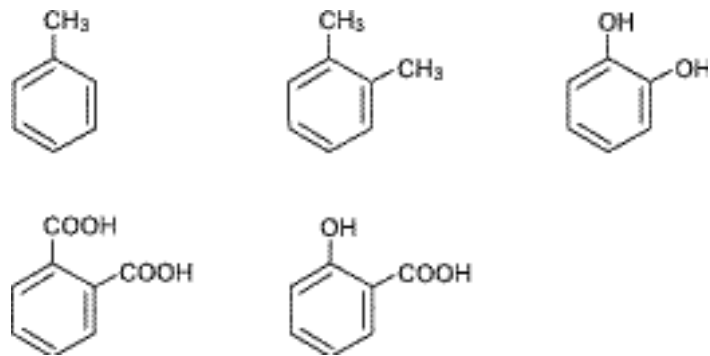
67.



가 가 가

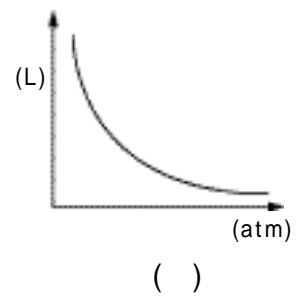
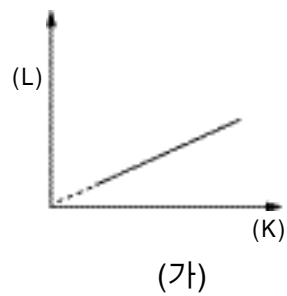
(NaOH)  
 (C<sub>2</sub>H<sub>5</sub>OH)  
 (HCOOH)

가 ?



68. (가)

, ( ) 가



< >

? [ 1 ]

ㄱ. 가  
 ㄴ.  
 ㄷ.

(가) ( ) (가) ( )  
 ㄱ ㄴ ㄴ ㄱ  
 ㄴ ㄷ ㄷ ㄱ  
 ㄷ ㄴ



[ 69-70 ]

( , A J ) .

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
1	A																	
2													B	C				
3	D												E		F			
4	G								H								I	J

69.

?

$1s^2 2s^2 2p^6 3s^2 3p^6$   
 0.197 nm , 0.099 nm

D F G H J

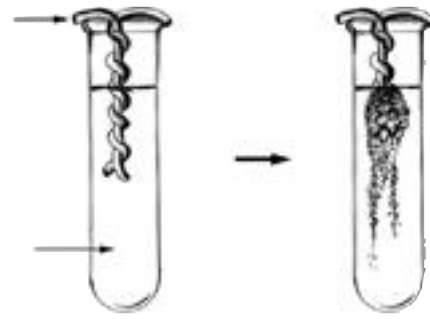
70.

[ 1 ]

A<sub>2</sub>C BF<sub>2</sub> C<sub>2</sub> DI E

71.

(AgNO<sub>3</sub>) (Cu) ,  
(Ag)



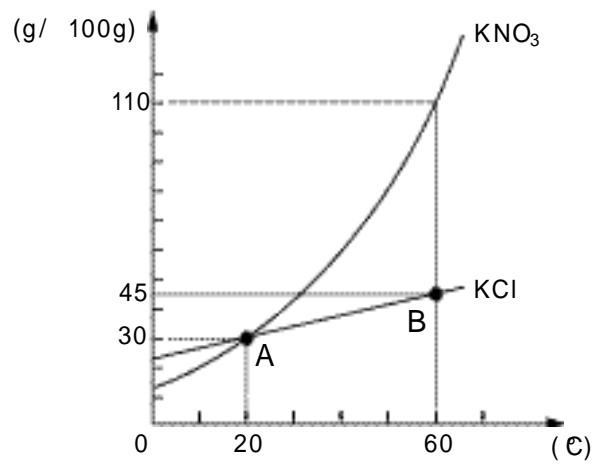
< > ?

ㄱ.  
 ㄴ.  
 ㄷ. 가  
 ㄹ.

ㄱ, ㄴ                      ㄱ, ㄷ                      ㄴ, ㄹ  
 ㄱ, ㄴ, ㄷ                      ㄱ, ㄴ, ㄹ

72.

(KNO<sub>3</sub>) (KCl)



< >

? ( , KNO<sub>3</sub> 101.1, KCl 74.6 ) .

ㄱ. A  
 ㄴ. B    45%  
 ㄷ. 60 °C    110g   20 °C  
 80g

ㄱ                      ㄴ                      ㄷ                      ㄱ, ㄴ                      ㄴ, ㄷ

73. 가

			(°C)
		46	78
		46	101
		44	- 42

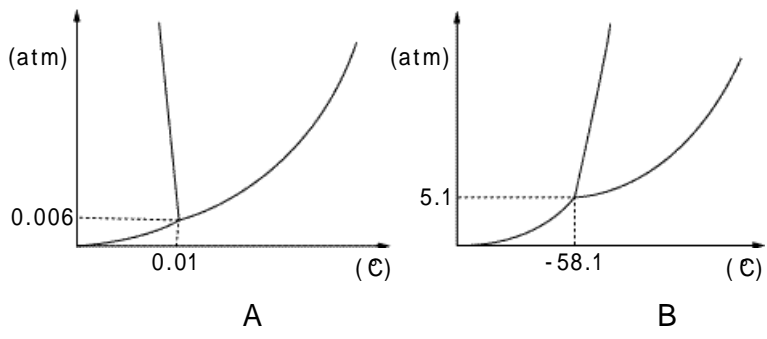
< >

?

A  
 B  
 C  
 D

A, B     A, C     B, C     B, D     C, D

74. A B



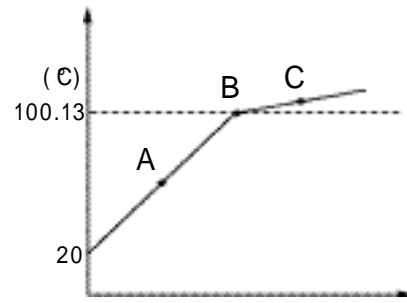
< >

?

A    0.01°C  
 B    20°C, 1  
 C    1    A    B  
 D    A    B

A, C     A, D     B, D  
 A, B, C     B, C, D

75. 500 g 1 가



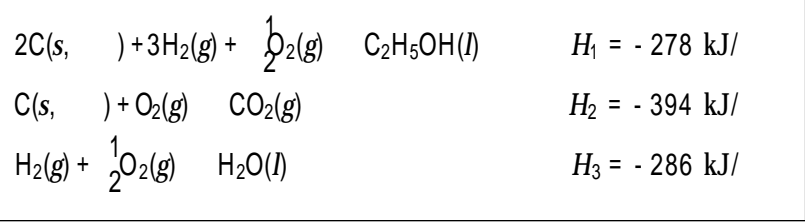
?

( ,  $K_b$  0.52 °C/m ) [2 ]

A    C    가  
 B    1  
 C    0.5 m

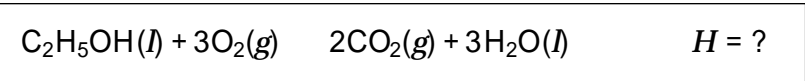
            A, B     A, C

76. 가



( H )

?



$$\begin{aligned}
 H &= H_1 + H_2 + H_3 \\
 H &= H_1 - H_2 - H_3 \\
 H &= H_2 + H_3 - H_1 \\
 H &= H_1 - 2 H_2 - 3 H_3 \\
 H &= 2 H_2 + 3 H_3 - H_1
 \end{aligned}$$

77.  $(S_2O_8^{2-})$   $(I^-)$



	( /L)		( /L · s)
	$[S_2O_8^{2-}]$	$[I^-]$	
	0.10	0.10	$6.0 \times 10^{-5}$
	0.20	0.10	$1.2 \times 10^{-4}$
	0.20	0.20	$2.4 \times 10^{-4}$
	0.30	0.20	(가)

(v)

$$v = k[S_2O_8^{2-}]^n[I^-]^m \quad (k)$$

$[I^-]$   $n$  가

(가)

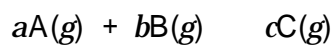
? [2 ]

(가)

- $3.6 \times 10^{-4}$
- $3.6 \times 10^{-4}$
- $3.6 \times 10^{-4}$
- $4.8 \times 10^{-4}$
- $4.8 \times 10^{-4}$

78.

C (%)



	300 ℃	500 ℃	700 ℃
100	52.0	10.6	2.2
300	71.0	26.4	7.3
600	84.2	42.2	12.6

< >

?

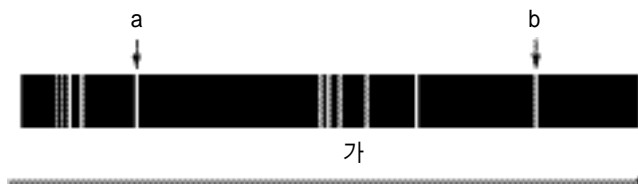
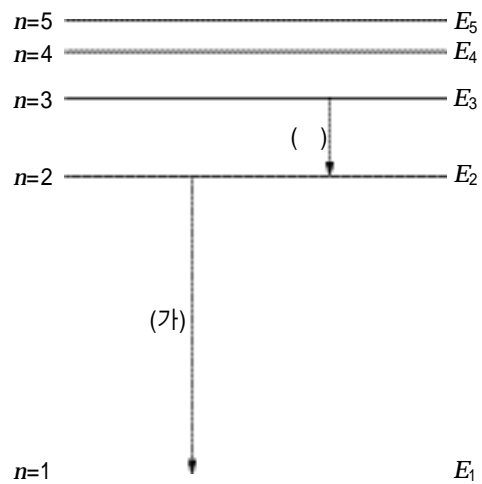
ㄱ. 가  
 ㄴ. 가  
 ㄷ.  
 ㄹ. a b c

- ㄱ, ㄴ
- ㄱ, ㄷ
- ㄱ, ㄹ
- ㄴ, ㄷ
- ㄷ, ㄹ

79.

가

$$E_n = -\frac{1312}{n^2} \text{ kJ/mol}$$



< >

?

ㄱ. (가) a  
 ㄴ. ( )  
 ㄷ. b a

- ㄱ
- ㄷ
- ㄱ, ㄴ
- ㄴ, ㄷ
- ㄱ, ㄴ, ㄷ

80.

$$HF(aq) + H_2O(l) \rightleftharpoons H_3O^+(aq) + F^-(aq) \quad K_a = 6.8 \times 10^{-4}$$

< >

?

ㄱ.  $F^-$   $H_3O^+$   
 ㄴ.  $H_2O$   
 ㄷ.  $HF$   $H_3O^+$

- ㄱ
- ㄴ
- ㄱ, ㄷ
- ㄴ, ㄷ
- ㄱ, ㄴ, ㄷ

\*

( )