

2022内蒙古高二上学期人教版(2019)高中化学月考试卷

1.



已知白磷和 P_4O_6 的分子结构如图, 现提供以下化学键的键能: $P-P: 198 \text{ kJ}\cdot\text{mol}^{-1}$ $P-O: 360 \text{ kJ}\cdot\text{mol}^{-1}$ $O=O: 498 \text{ kJ}\cdot\text{mol}^{-1}$, 则反应 $P_4(\text{白磷}) + 3O_2 = P_4O_6$ 的反应热 ΔH 为 ()

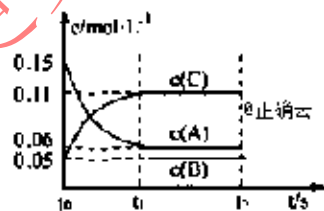
- A. $-126 \text{ kJ}\cdot\text{mol}^{-1}$
- B. $-1638 \text{ kJ}\cdot\text{mol}^{-1}$
- C. $+126 \text{ kJ}\cdot\text{mol}^{-1}$
- D. $+1638 \text{ kJ}\cdot\text{mol}^{-1}$

2.

下列反应的离子方程式表达正确的是()

- A. $FeCl_3$ 溶液中滴加HI溶液: $2Fe^{3+} + 2HI = 2Fe^{2+} + 2H^+ + I_2$
- B. $1 \text{ mol}\cdot\text{L}^{-1} NaAlO_2$ 溶液和 $4 \text{ mol}\cdot\text{L}^{-1} HCl$ 溶液等体积混合: $AlO_2^- + 4H^+ = Al^{3+} + 2H_2O$
- C. NH_4HSO_4 溶液中滴加少量 $Ba(OH)_2$ 溶液:
- $$NH_4^+ + H^+ + SO_4^{2-} + Ba^{2+} + 2OH^- = BaSO_4\downarrow + NH_3\cdot H_2O + H_2O$$
- D. $Na_2S_2O_3$ 溶液中滴加过量稀 H_2SO_4 : $3S_2O_3^{2-} + 2H^+ = 4S\downarrow + 2SO_4^{2-} + H_2O$

3.



已知: $2H_2(g) + O_2(g) = 2H_2O(l) \quad \Delta H = -571.6 \text{ kJ}\cdot\text{mol}^{-1}$

$2CH_3OH(l) + 3O_2(g) = 2CO_2(g) + 4H_2O(l) \quad \Delta H = -1452 \text{ kJ}\cdot\text{mol}^{-1}$

$H^+(aq) + OH^-(aq) = H_2O(l) \quad \Delta H = -57.3 \text{ kJ}\cdot\text{mol}^{-1}$

下列说法正确的是 ()

- A. $H_2(g)$ 的燃烧热为 $571.6 \text{ kJ}\cdot\text{mol}^{-1}$
- B. $H_2SO_4(aq) + Ba(OH)_2(aq) = BaSO_4(s) + H_2O(l) \quad \Delta H = -57.3 \text{ kJ}\cdot\text{mol}^{-1}$
- C. $3H_2(g) + CO_2(g) = CH_3OH(l) + H_2O(l) \quad \Delta H = +135.9 \text{ kJ}\cdot\text{mol}^{-1}$