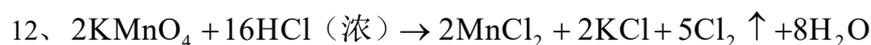
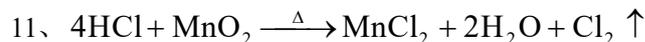
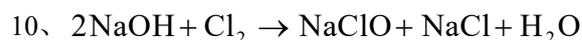
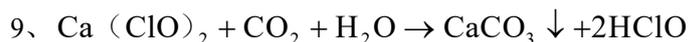
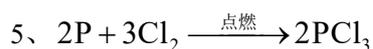
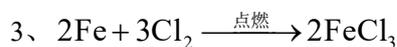
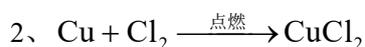
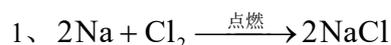
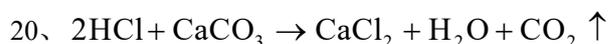
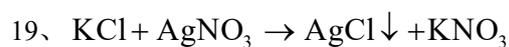
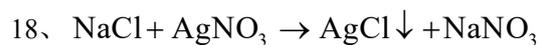
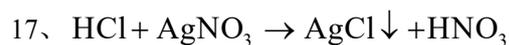
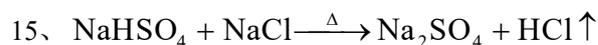


第一章 卤素

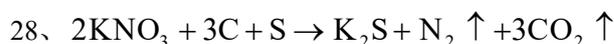
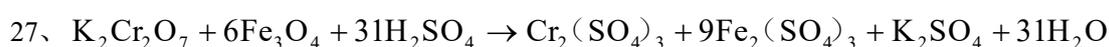
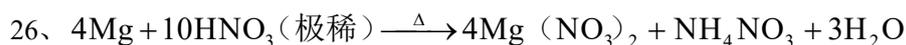
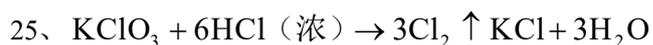
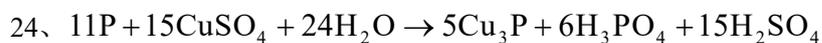
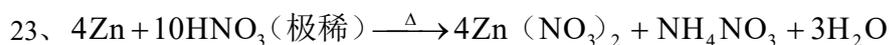
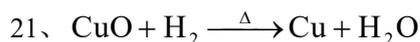
第一节 氯气



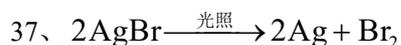
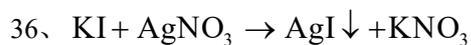
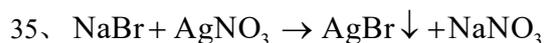
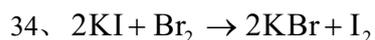
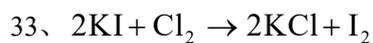
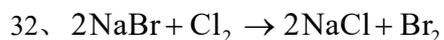
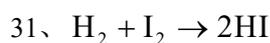
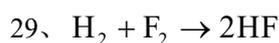
第二节 氯化氢



第三节 氧化还原反应

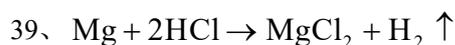
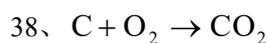


第四节 卤族元素

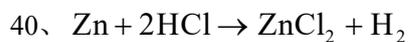


第二章 摩尔 反应热

第一节 摩尔



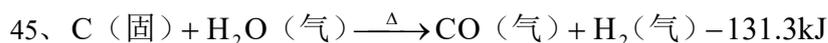
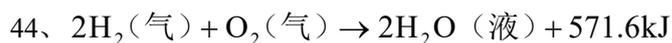
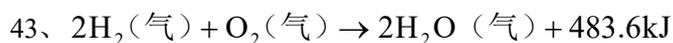
第二节 气体摩尔体积



第三节 物质的量浓度

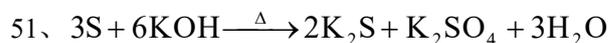
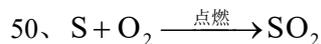
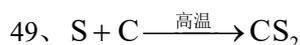
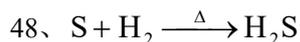
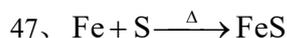
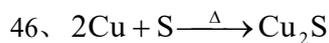


第四节 反应热

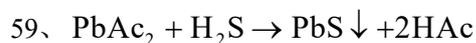
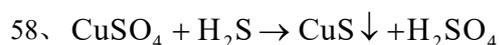
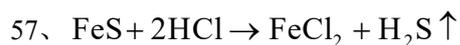
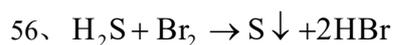
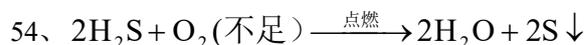
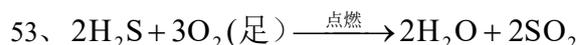


第三章 硫 硫酸

第一节 硫



第二节 硫的氢化物和氧化物



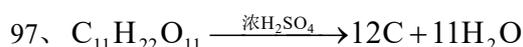
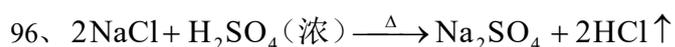
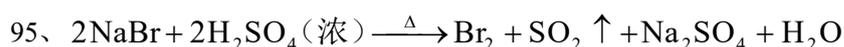
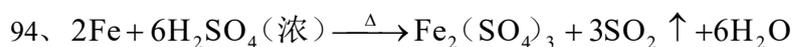
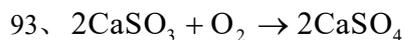
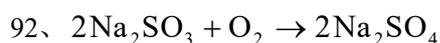
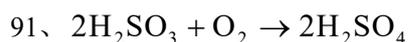
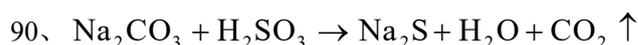
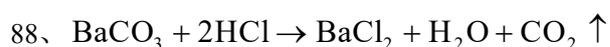
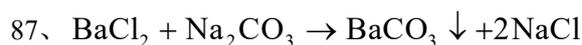
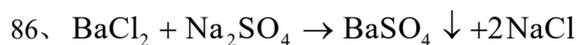
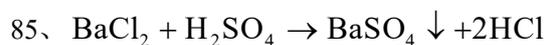
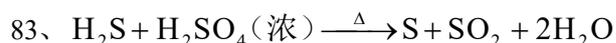
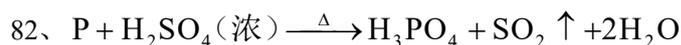
- 61、 $\text{NaHS} + \text{NaOH} \rightarrow \text{Na}_2\text{S} + \text{H}_2\text{O}$
- 62、 $\text{H}_2\text{S} + 2\text{NaOH} \rightarrow \text{Na}_2\text{S} + 2\text{H}_2\text{O}$ (60、61 结合)
- 63、 $\text{H}_2\text{S} + 2\text{FeCl}_3 \rightarrow \text{S} \downarrow + 2\text{FeCl}_2 + 2\text{HCl}$
- 64、 $\text{H}_2\text{SO}_4(\text{稀}) + \text{FeS} \rightarrow \text{FeSO}_4 + \text{H}_2\text{S} \uparrow$
- 65、 $\text{SO}_2 + \text{H}_2\text{O} \rightleftharpoons \text{H}_2\text{SO}_3$
- 66、 $2\text{SO}_2 + \text{O}_2 \xrightleftharpoons[\Delta]{\text{V}_2\text{O}_5} 2\text{SO}_3$
- 67、 $\text{SO}_3 + \text{H}_2\text{O} \rightarrow \text{H}_2\text{SO}_4$
- 68、 $\text{Na}_2\text{SO}_3 + \text{H}_2\text{SO}_4 \rightarrow \text{Na}_2\text{SO}_4 + \text{H}_2\text{O} + \text{SO}_2 \uparrow$
- 69、 $\text{SO}_2 + 2\text{NaOH} \rightarrow \text{Na}_2\text{SO}_3 + \text{H}_2\text{O}$
- 70、 $\text{SO}_2 + \text{CaO} \rightarrow \text{CaSO}_3$
- 71、 $\text{SO}_2 + 2\text{Ca}(\text{OH})_2 \rightarrow \text{CaSO}_3 \downarrow + \text{H}_2\text{O}$
- 72、 $\text{SO}_2 + \text{CaSO}_3 + \text{H}_2\text{O} \rightarrow \text{Ca}(\text{HSO}_3)_2$
- 73、 $\text{SO}_2 + 2\text{H}_2\text{S} \rightarrow 3\text{S} \downarrow + 2\text{H}_2\text{O}$
- 74、 $\text{SO}_2 + \text{Cl}_2 + 2\text{H}_2\text{O} \rightarrow 2\text{HCl} + \text{H}_2\text{SO}_4$
- 75、 $\text{SO}_2 + \text{Br}_2 + 2\text{H}_2\text{O} \rightarrow 2\text{HBr} + \text{H}_2\text{SO}_4$
- 76、 $5\text{SO}_2 + 2\text{H}_2\text{O} + 2\text{KMnO}_4 \rightarrow \text{MnSO}_4 + \text{K}_2\text{SO}_4 + 2\text{H}_2\text{SO}_4$

第三节 硫酸的工业制法

- 77、 $4\text{FeS}_2 + 11\text{O}_2 \xrightarrow{\text{高温}} 2\text{Fe}_2\text{O}_3 + 8\text{SO}_2 \uparrow$
- 78、 $2\text{SO}_2 + \text{O}_2 \xrightleftharpoons[\Delta]{\text{V}_2\text{O}_5} 2\text{SO}_3$
- 79、 $\text{H}_2\text{O} + \text{SO}_3 \rightarrow \text{H}_2\text{SO}_4$

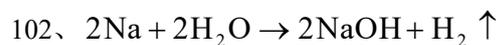
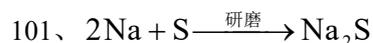
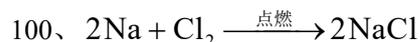
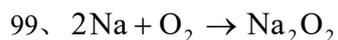
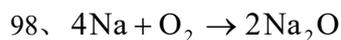
第四节 硫酸 硫酸盐

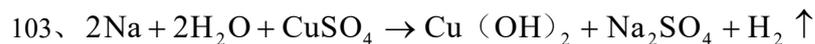
- 80、 $\text{C} + 2\text{H}_2\text{SO}_4(\text{浓}) \xrightarrow{\Delta} \text{CO}_2 \uparrow + 2\text{SO}_2 \uparrow + 2\text{H}_2\text{O}$
- 81、 $\text{S} + 2\text{H}_2\text{SO}_4(\text{浓}) \xrightarrow{\Delta} 3\text{SO}_2 \uparrow + 2\text{H}_2\text{O}$



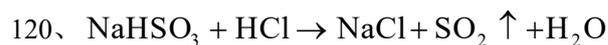
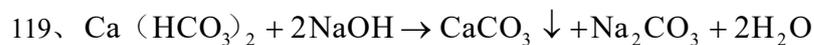
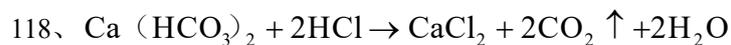
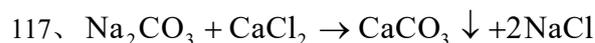
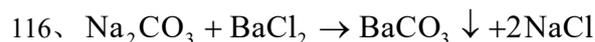
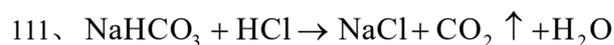
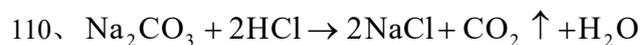
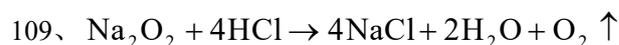
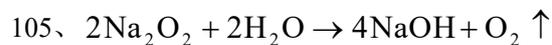
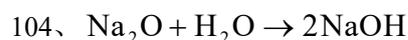
第四章 碱金属

第一节 钠

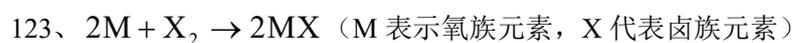
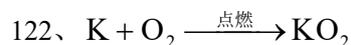
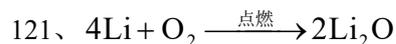


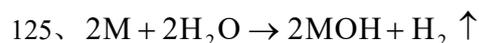
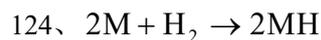


第二节 钠的氧化物



第三节 碱金属元素



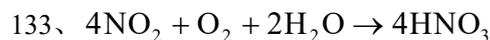
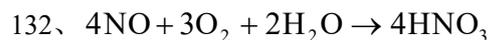
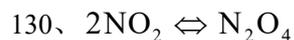
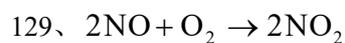
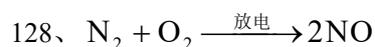
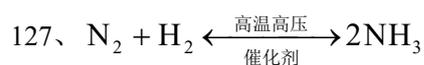
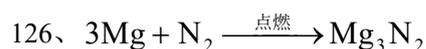


第五章 物质结构 元素周期律

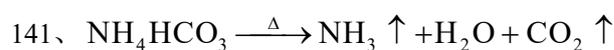
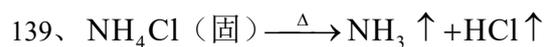
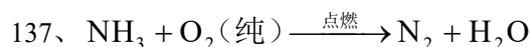
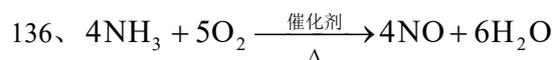
本章内容、性质特殊，所有化学反应方程式均融在其他章节中。

第六章 氮和磷

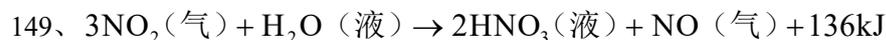
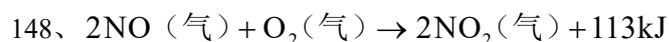
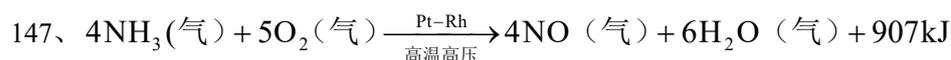
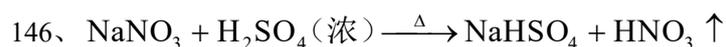
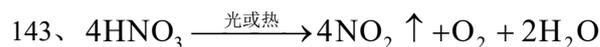
第二节 氮气



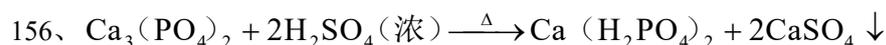
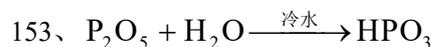
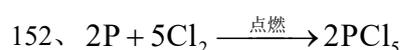
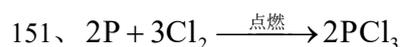
第三节 氨 铵盐



第四节 硝酸



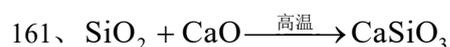
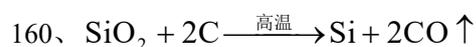
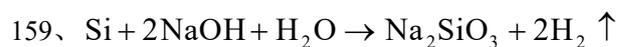
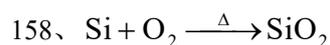
第六节 磷 磷酸

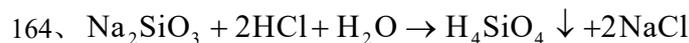


化学 第二册

第一章 硅

第二节 硅及其重要的化合物



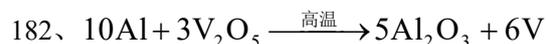
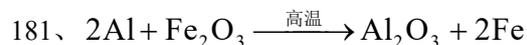
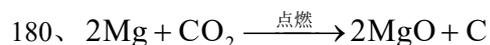
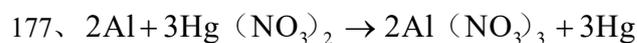
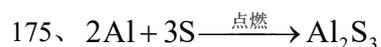
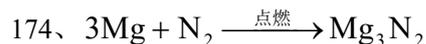
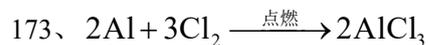
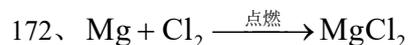
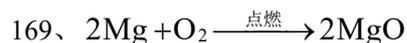


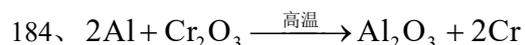
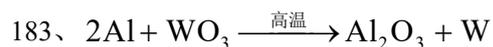
第三节 硅酸盐工业简述



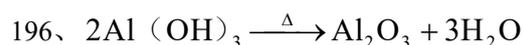
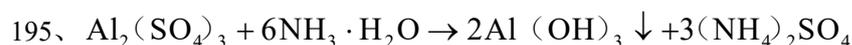
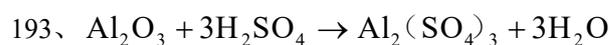
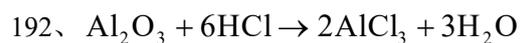
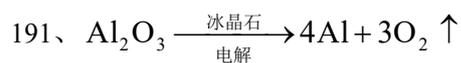
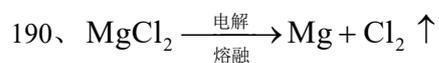
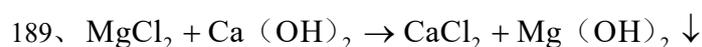
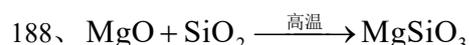
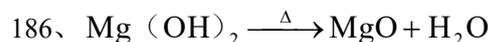
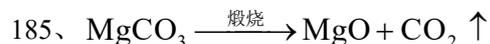
第二章 镁 铝

第二节 镁和铝的性质

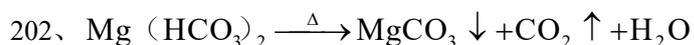
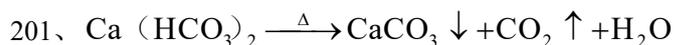
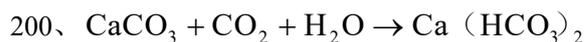


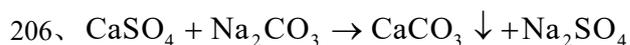
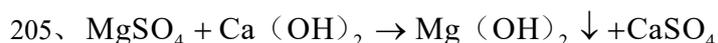
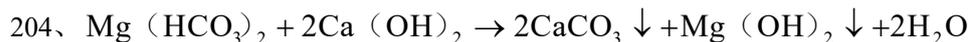


第三节 镁和铝的重要化合物



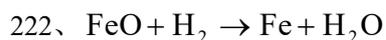
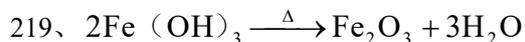
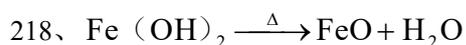
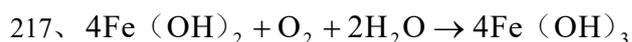
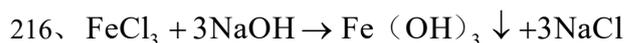
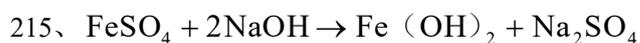
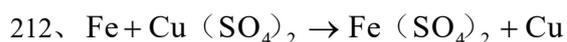
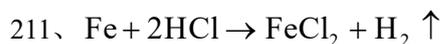
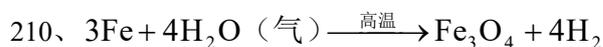
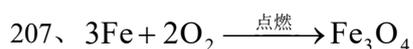
第四节 硬水及其软化

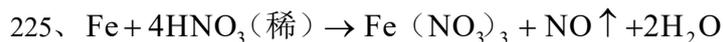




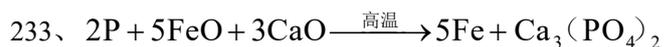
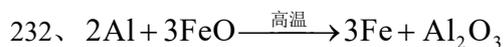
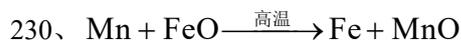
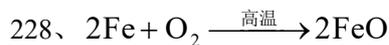
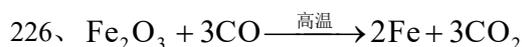
第三章 铁

第一节 铁和铁的化合物



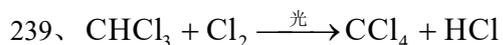
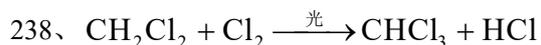
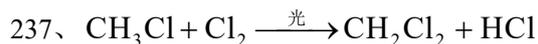
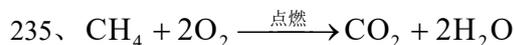
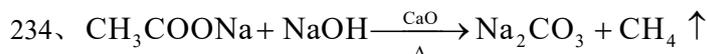


第二节 炼铁和炼钢

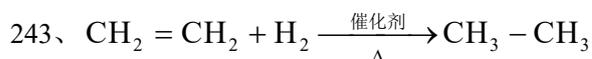
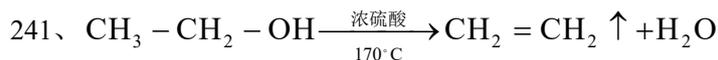


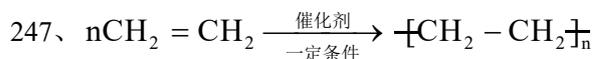
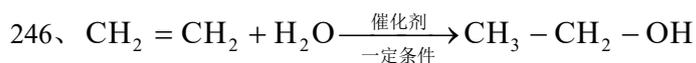
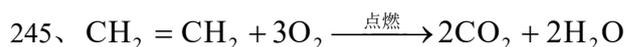
第四章 烃

第二节 甲烷

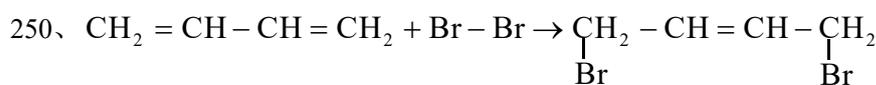
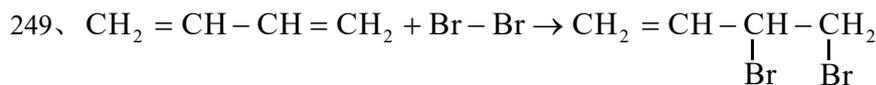


第四节 乙烯

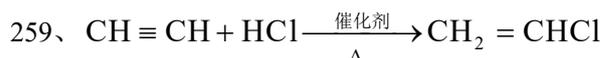
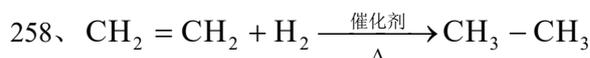
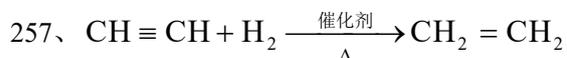
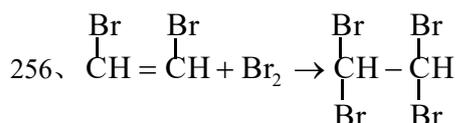
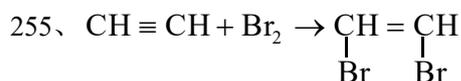
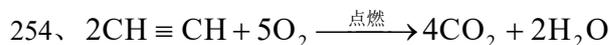




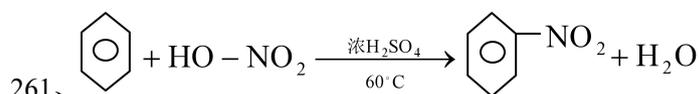
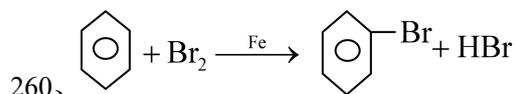
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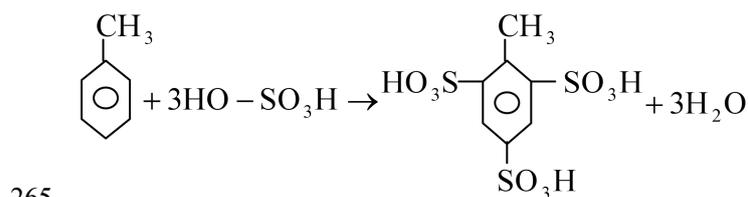
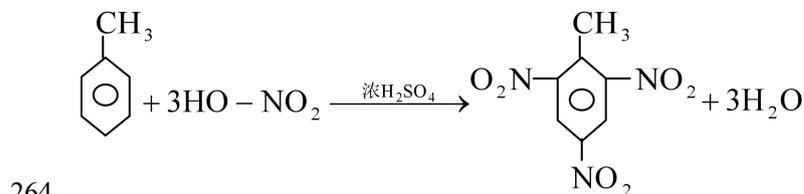
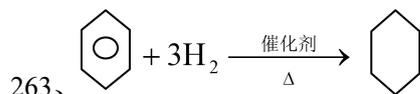
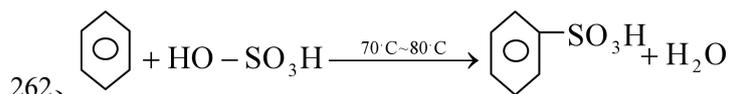


第六节 乙炔

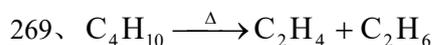
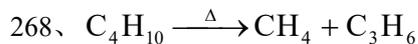
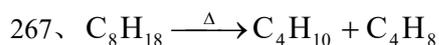
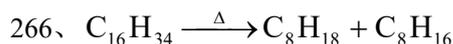


第七节 苯 芳香烃



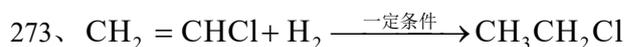
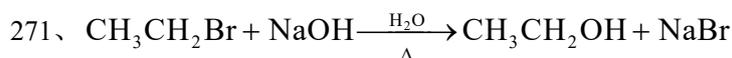
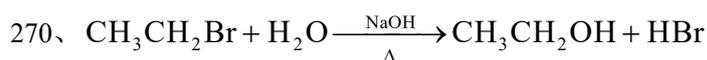


第八节 石油和石油产品概述

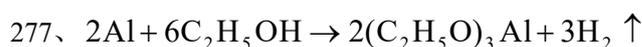
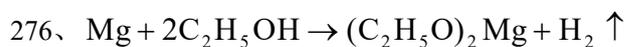
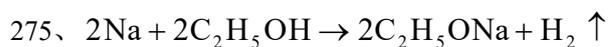


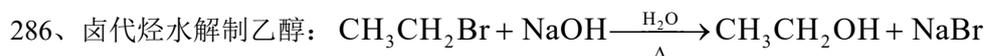
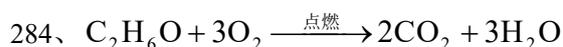
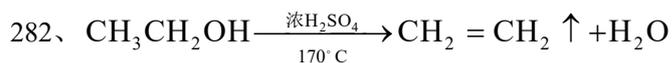
第五章 烃的衍生物

补充课程 卤代烃

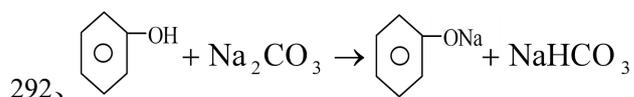
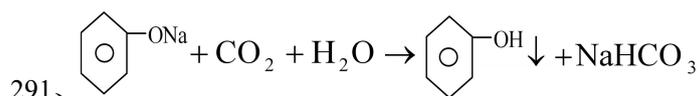
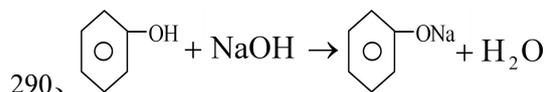
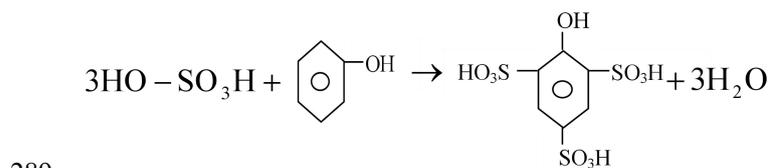
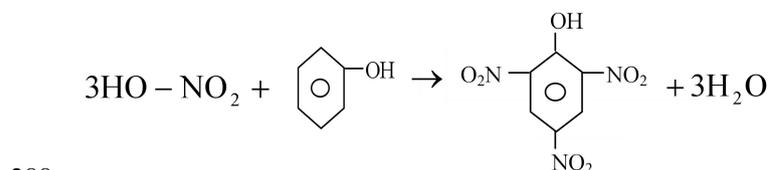
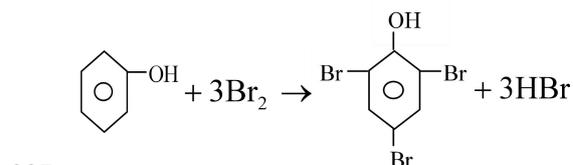


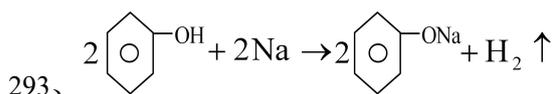
第一节 乙醇





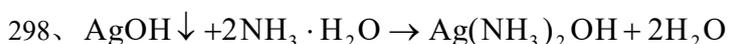
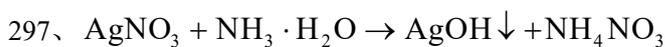
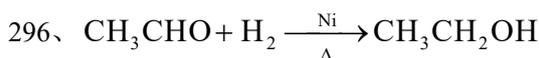
第二节 苯酚



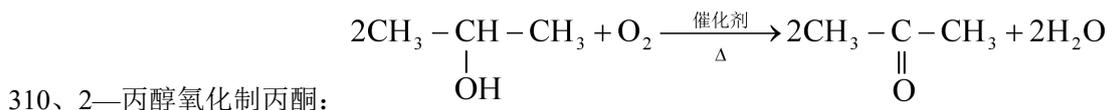
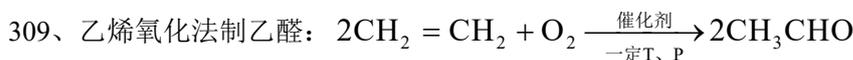
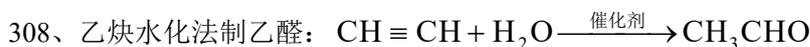
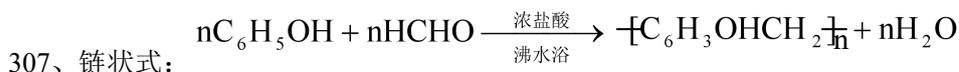
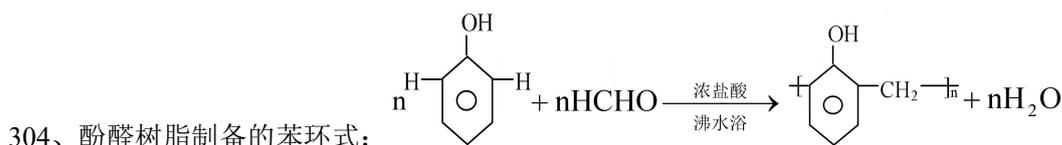
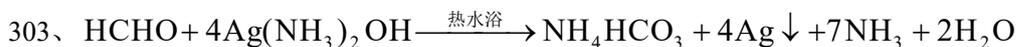
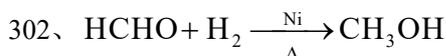
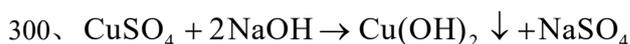
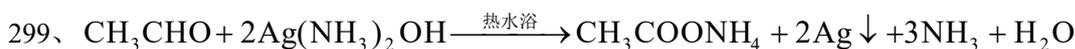


} 苯酚的工业制法

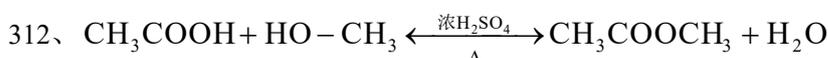
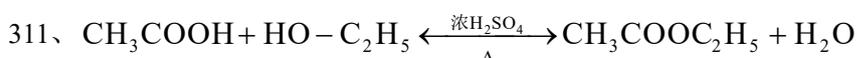
第三节 醛

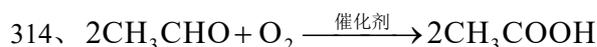
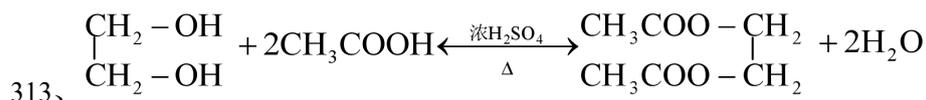


} 银氨溶液制备

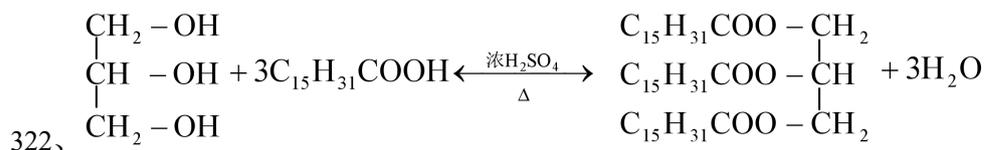
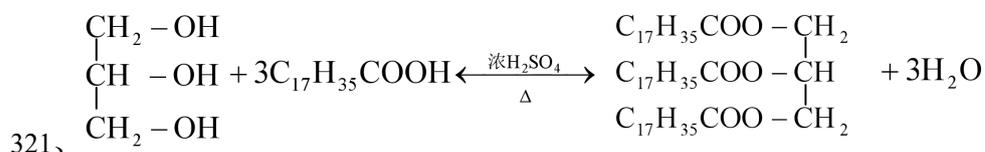
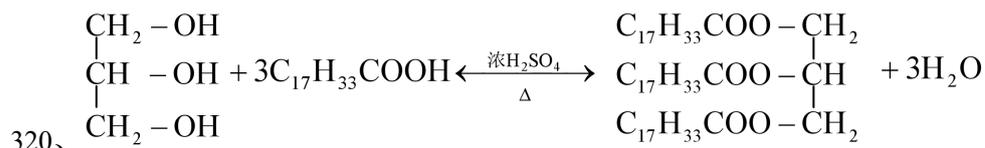
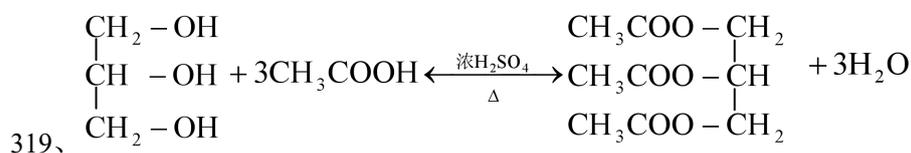
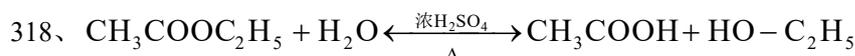
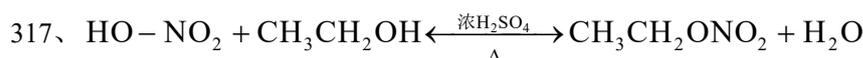
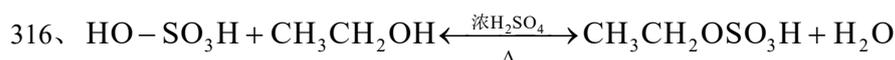


第四节 乙酸





第五节 酯



第六节 油脂

