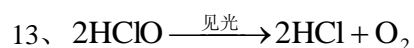
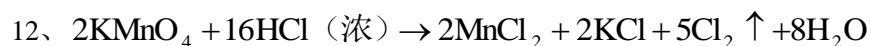
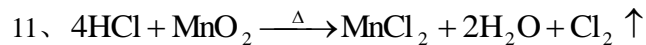
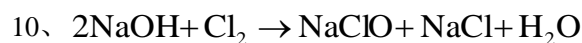
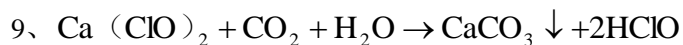
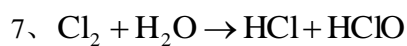
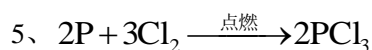
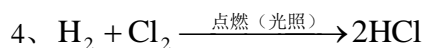
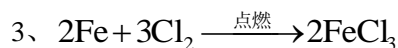
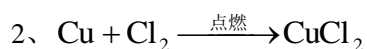
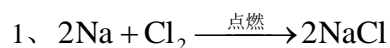


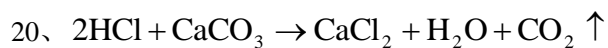
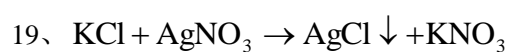
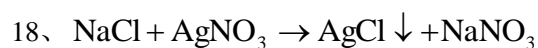
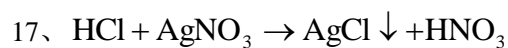
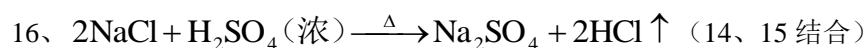
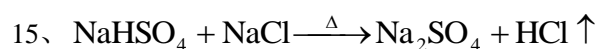
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## 第一章 卤素

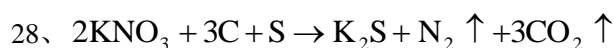
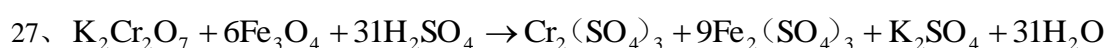
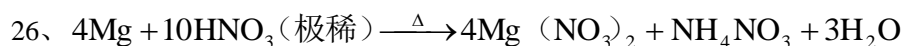
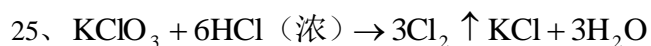
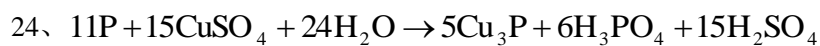
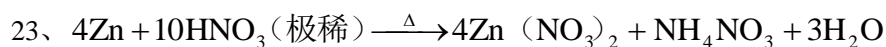
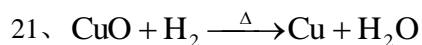
### 第一节 氯气



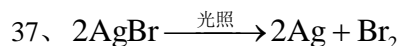
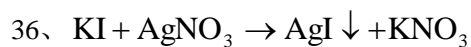
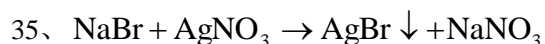
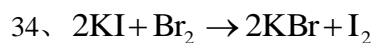
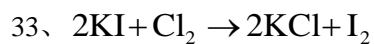
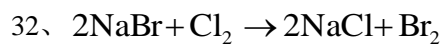
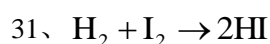
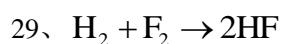
### 第二节 氯化氢



### 第三节 氧化还原反应

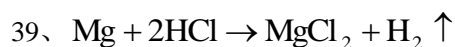
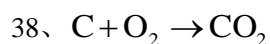


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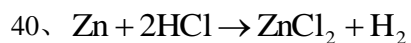


## 第二章 摩尔 反应热

### 第一节 摩尔

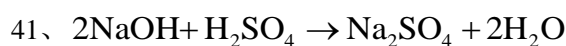


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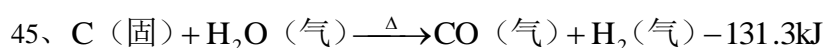
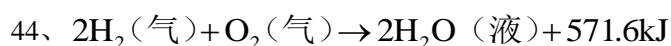
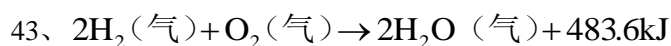
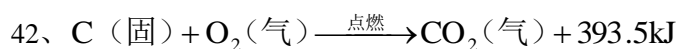


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### 第三节 物质的量浓度

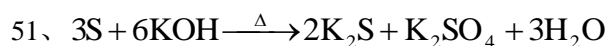
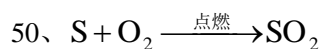
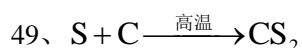
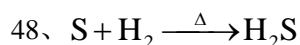
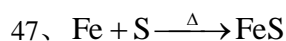
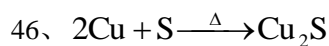


### 第四节 反应热

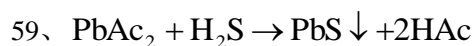
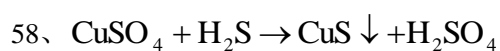
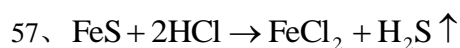
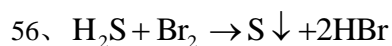
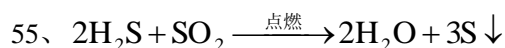
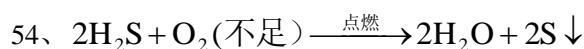
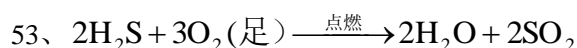
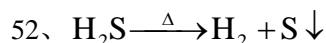


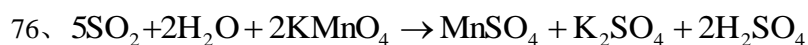
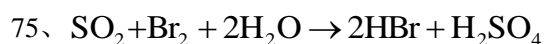
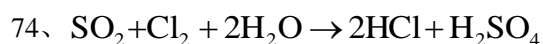
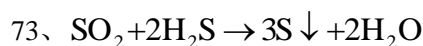
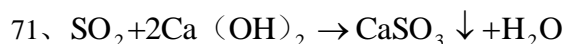
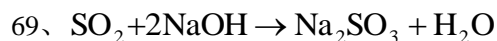
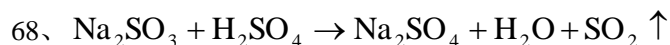
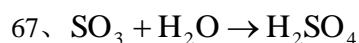
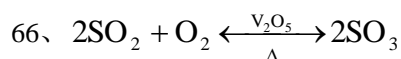
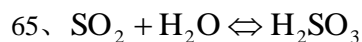
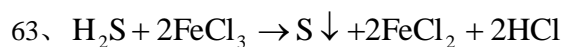
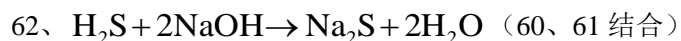
## 第三章 硫 硫酸

### 第一节 硫

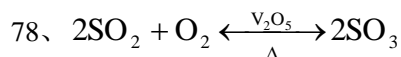
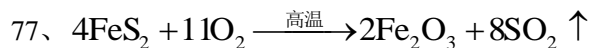


### 第二节 硫的氢化物和氧化物

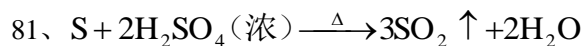
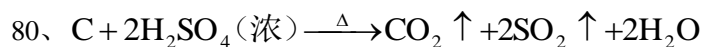




### 第三节 硫酸的工业制法



### 第四节 硫酸 硫酸盐

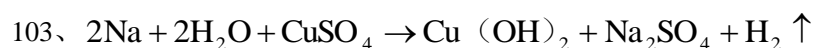


- 
- 82、 $\text{P} + \text{H}_2\text{SO}_4(\text{浓}) \xrightarrow{\Delta} \text{H}_3\text{PO}_4 + \text{SO}_2 \uparrow + 2\text{H}_2\text{O}$
- 83、 $\text{H}_2\text{S} + \text{H}_2\text{SO}_4(\text{浓}) \xrightarrow{\Delta} \text{S} + \text{SO}_2 + 2\text{H}_2\text{O}$
- 84、 $\text{Cu} + 2\text{H}_2\text{SO}_4(\text{浓}) \xrightarrow{\Delta} \text{CuSO}_4 + \text{SO}_2 \uparrow + 2\text{H}_2\text{O}$
- 85、 $\text{BaCl}_2 + \text{H}_2\text{SO}_4 \rightarrow \text{BaSO}_4 \downarrow + 2\text{HCl}$
- 86、 $\text{BaCl}_2 + \text{Na}_2\text{SO}_4 \rightarrow \text{BaSO}_4 \downarrow + 2\text{NaCl}$
- 87、 $\text{BaCl}_2 + \text{Na}_2\text{CO}_3 \rightarrow \text{BaCO}_3 \downarrow + 2\text{NaCl}$
- 88、 $\text{BaCO}_3 + 2\text{HCl} \rightarrow \text{BaCl}_2 + \text{H}_2\text{O} + \text{CO}_2 \uparrow$
- 89、 $\text{BaCO}_3 + 2\text{HNO}_3 \rightarrow \text{Ba}(\text{NO}_3)_2 + \text{H}_2\text{O} + \text{CO}_2 \uparrow$
- 90、 $\text{Na}_2\text{CO}_3 + \text{H}_2\text{SO}_3 \rightarrow \text{Na}_2\text{S} + \text{H}_2\text{O} + \text{CO}_2 \uparrow$
- 91、 $2\text{H}_2\text{SO}_3 + \text{O}_2 \rightarrow 2\text{H}_2\text{SO}_4$
- 92、 $2\text{Na}_2\text{SO}_3 + \text{O}_2 \rightarrow 2\text{Na}_2\text{SO}_4$
- 93、 $2\text{CaSO}_3 + \text{O}_2 \rightarrow 2\text{CaSO}_4$
- 94、 $2\text{Fe} + 6\text{H}_2\text{SO}_4(\text{浓}) \xrightarrow{\Delta} \text{Fe}_2(\text{SO}_4)_3 + 3\text{SO}_2 \uparrow + 6\text{H}_2\text{O}$
- 95、 $2\text{NaBr} + 2\text{H}_2\text{SO}_4(\text{浓}) \xrightarrow{\Delta} \text{Br}_2 + \text{SO}_2 \uparrow + \text{Na}_2\text{SO}_4 + \text{H}_2\text{O}$
- 96、 $2\text{NaCl} + \text{H}_2\text{SO}_4(\text{浓}) \xrightarrow{\Delta} \text{Na}_2\text{SO}_4 + 2\text{HCl} \uparrow$
- 97、 $\text{C}_{11}\text{H}_{22}\text{O}_{11} \xrightarrow{\text{浓H}_2\text{SO}_4} 12\text{C} + 11\text{H}_2\text{O}$

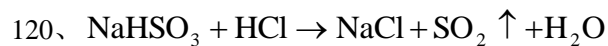
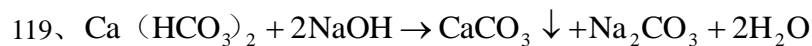
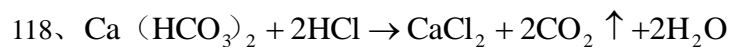
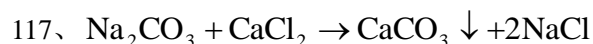
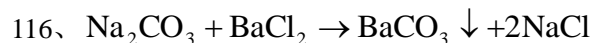
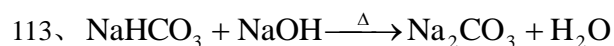
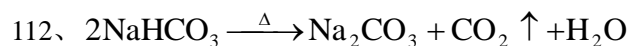
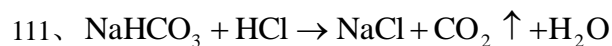
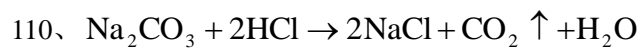
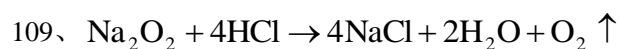
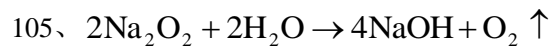
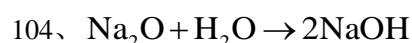
## 第四章 碱金属

### 第一节 钠

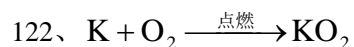
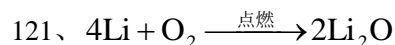
- 98、 $4\text{Na} + \text{O}_2 \rightarrow 2\text{Na}_2\text{O}$
- 99、 $2\text{Na} + \text{O}_2 \rightarrow \text{Na}_2\text{O}_2$
- 100、 $2\text{Na} + \text{Cl}_2 \xrightarrow{\text{点燃}} 2\text{NaCl}$
- 101、 $2\text{Na} + \text{S} \xrightarrow{\text{研磨}} \text{Na}_2\text{S}$
- 102、 $2\text{Na} + 2\text{H}_2\text{O} \rightarrow 2\text{NaOH} + \text{H}_2 \uparrow$

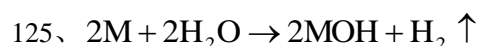
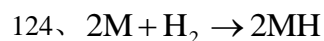


### 第二节 钠的氧化物



### 第三节 碱金属元素



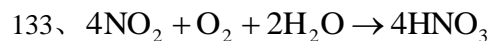
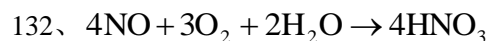
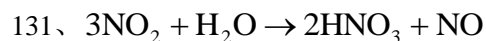
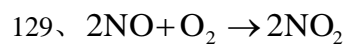
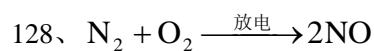
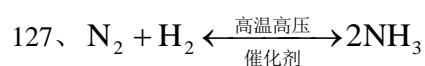
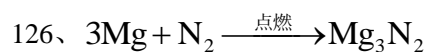


## 第五章 物质结构 元素周期律

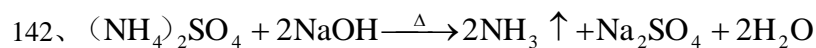
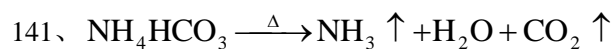
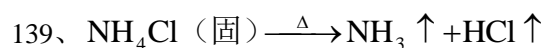
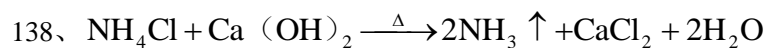
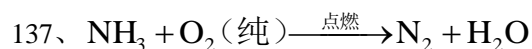
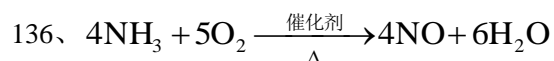
本章内容、性质特殊，所有化学反应方程式均融在其他章节中。

## 第六章 氮和磷

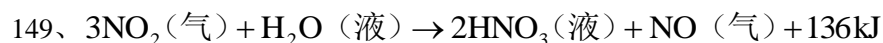
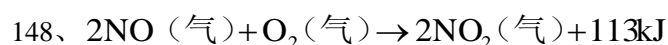
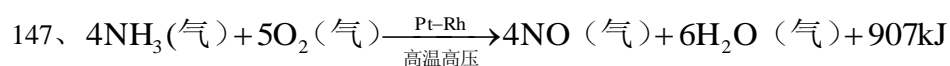
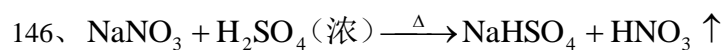
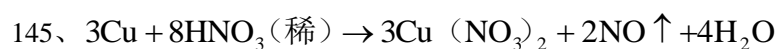
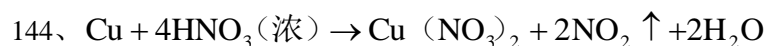
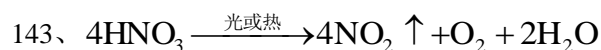
### 第二节 氮气



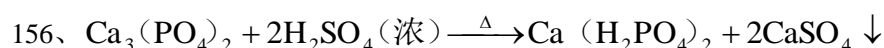
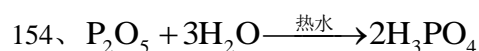
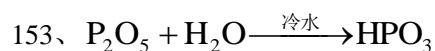
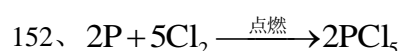
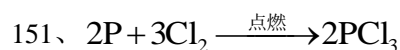
### 第三节 氨 铵盐



### 第四节 硝酸



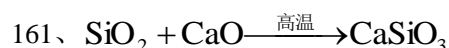
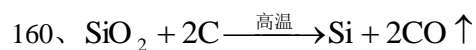
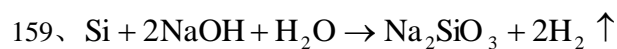
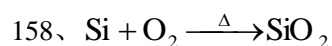
## 第六节 磷 磷酸



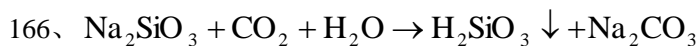
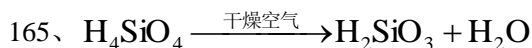
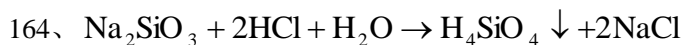
## 化学 第二册

### 第一章 硅

#### 第二节 硅及其重要的化合物





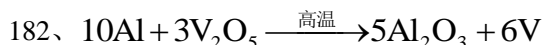
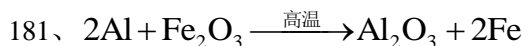
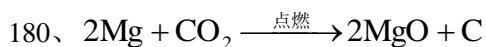
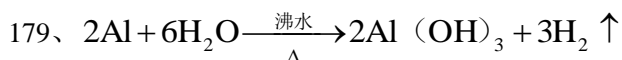
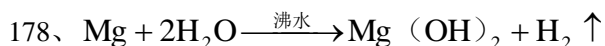
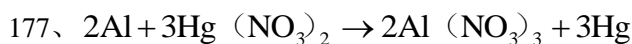
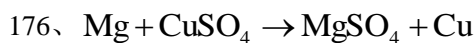
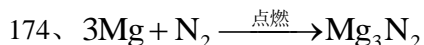
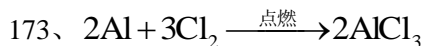
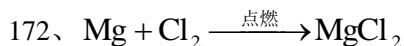
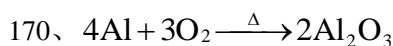
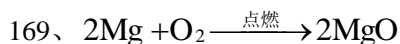


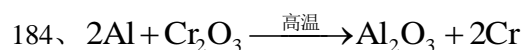
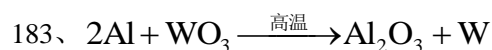
### 第三节 硅酸盐工业简述



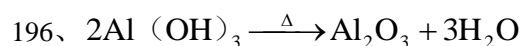
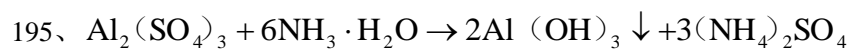
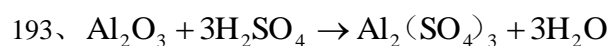
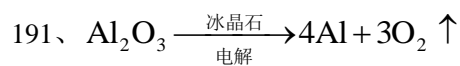
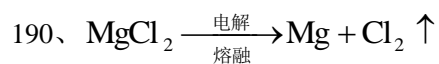
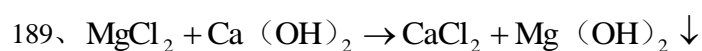
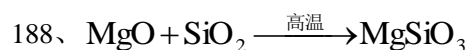
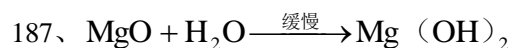
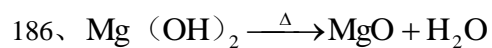
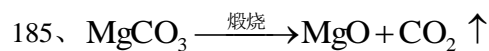
## 第二章 镁 铝

### 第二节 镁和铝的性质

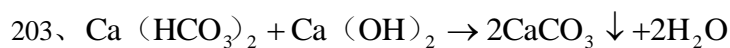
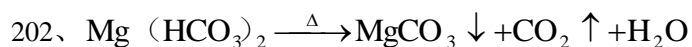
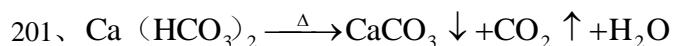
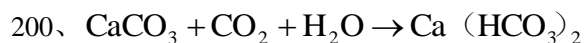


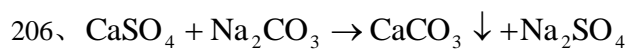
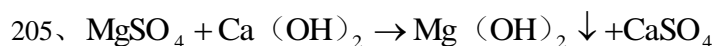
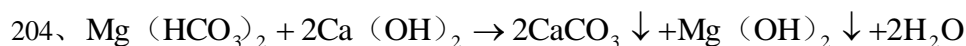


### 第三节 镁和铝的重要化合物



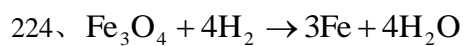
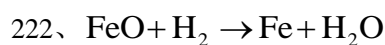
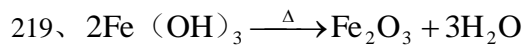
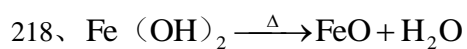
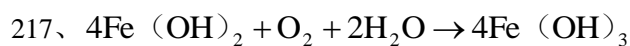
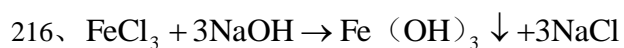
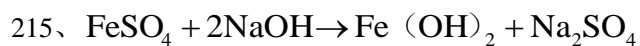
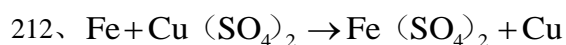
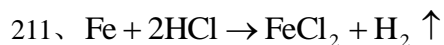
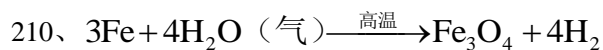
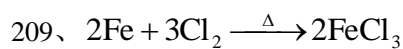
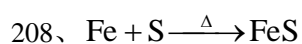
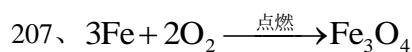
### 第四节 硬水及其软化

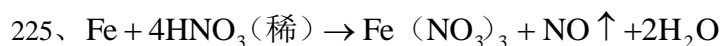




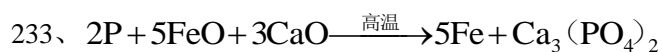
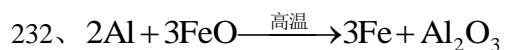
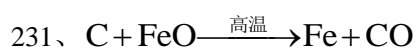
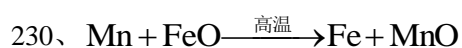
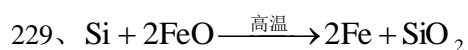
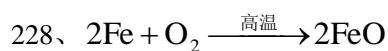
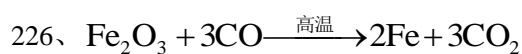
### 第三章 铁

#### 第一节 铁和铁的化合物



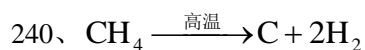
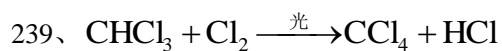
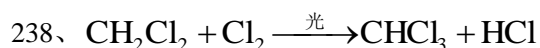
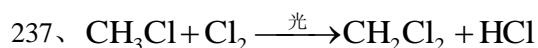
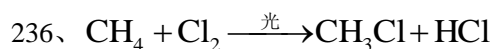
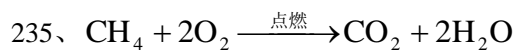
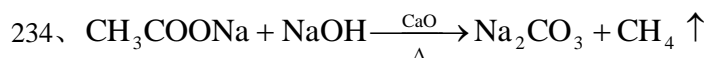


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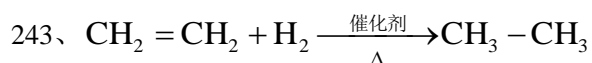
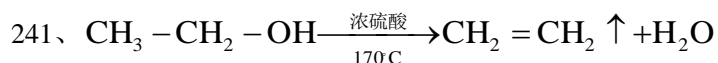


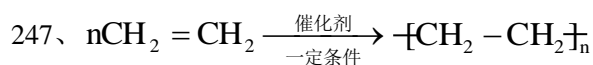
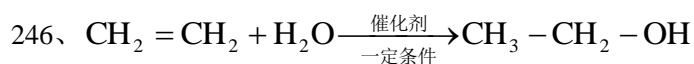
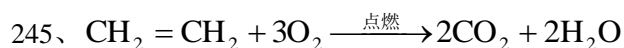
## 第四章 烃

### 第二节 甲烷

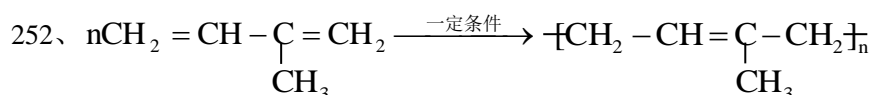
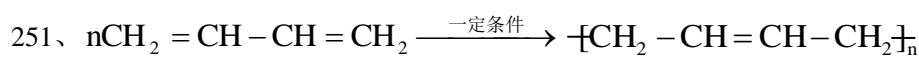
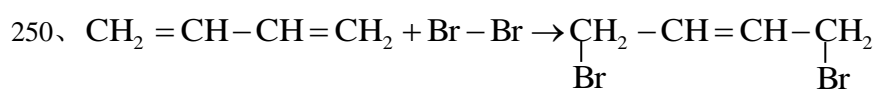
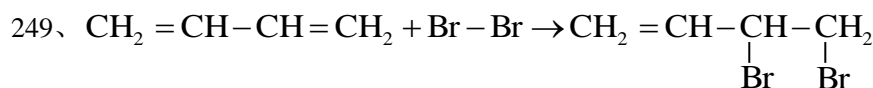
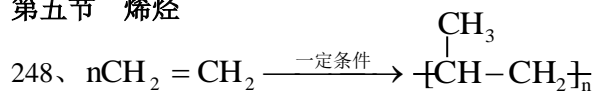


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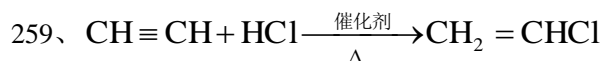
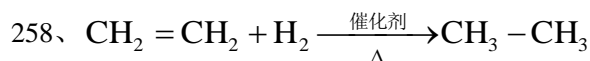
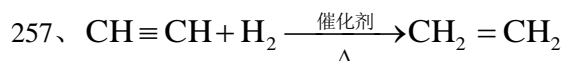
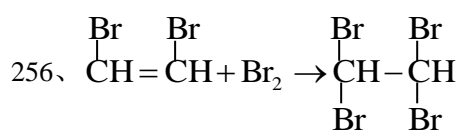
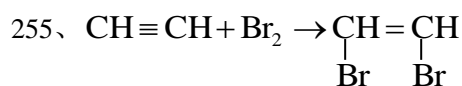
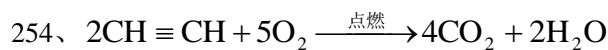
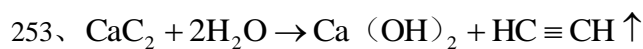




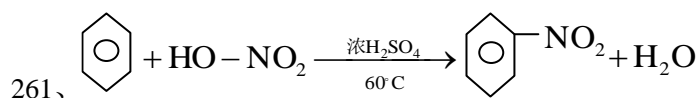
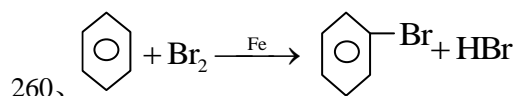
### 第五节 烯烃

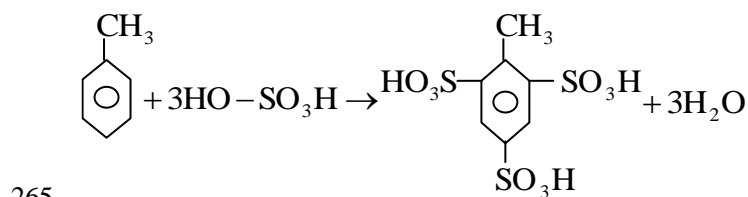
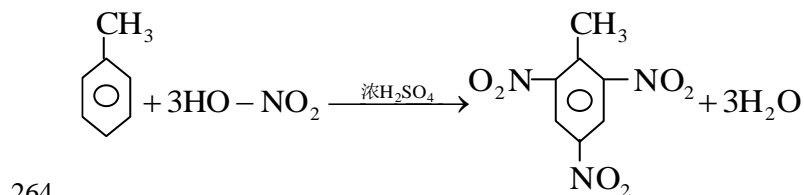
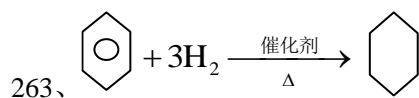
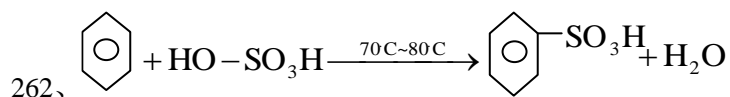


### 第六节 乙炔

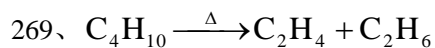
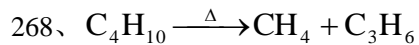
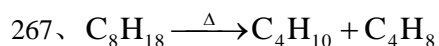
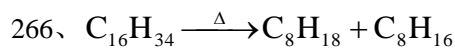


### 第七节 苯 芳香烃



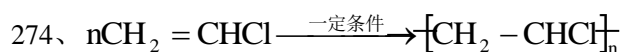
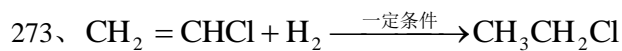
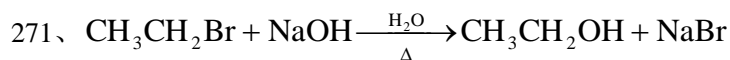
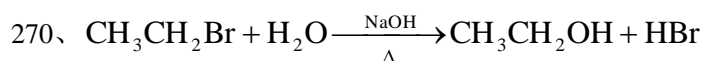


## 第八节 石油和石油产品概述

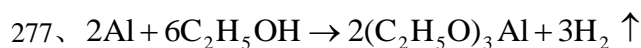
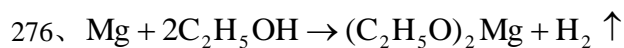
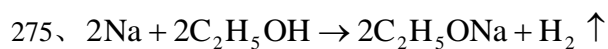


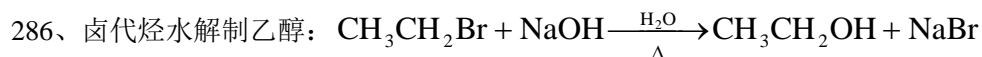
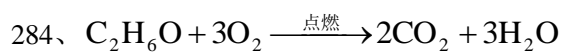
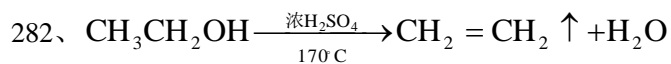
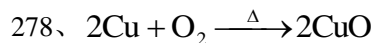
## 第五章 烃的衍生物

### 补充课程 卤代烃

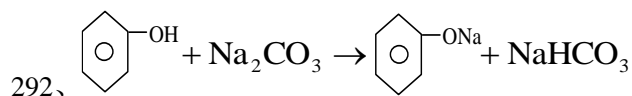
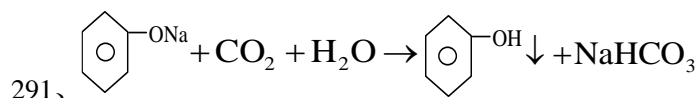
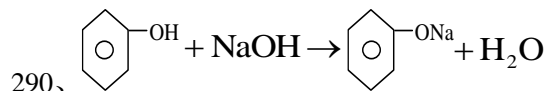
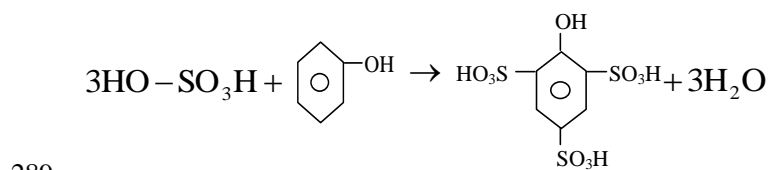
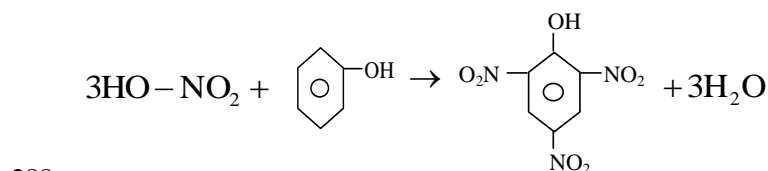
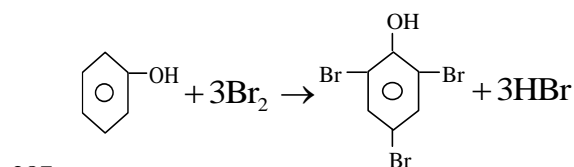


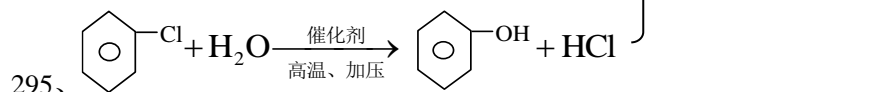
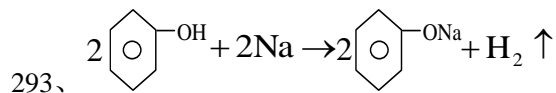
### 第一节 乙醇





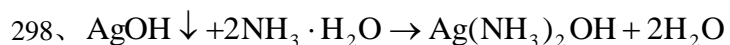
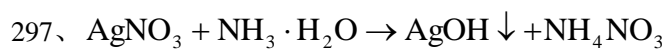
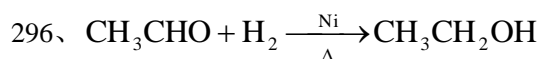
## 第二节 苯酚



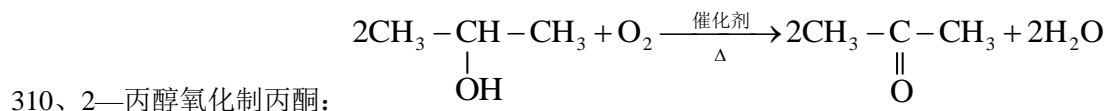
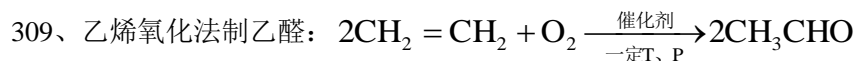
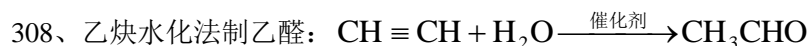
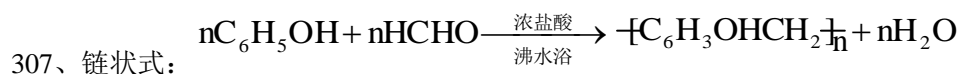
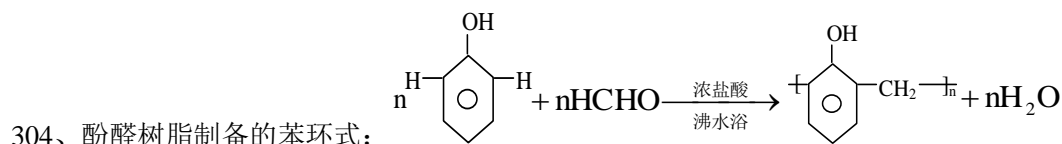
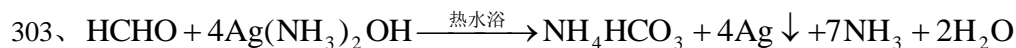
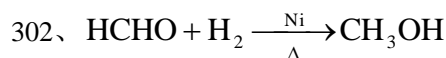
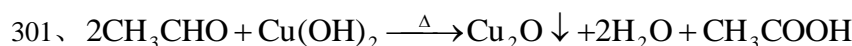
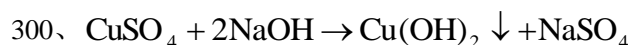
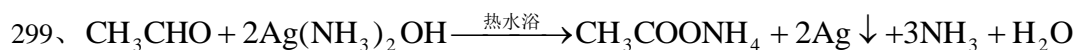


苯酚的工业制法

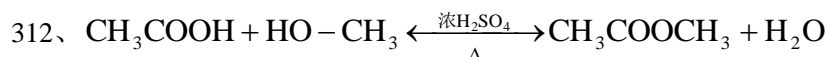
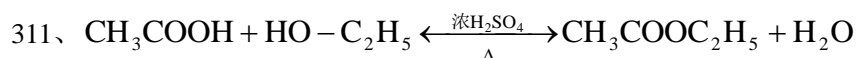
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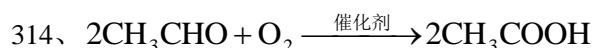
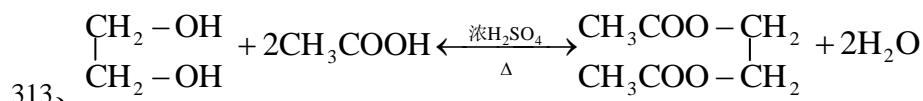
银氨溶液制备



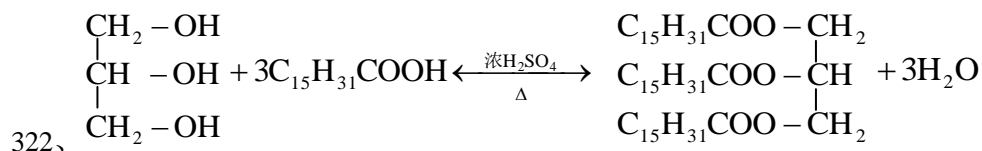
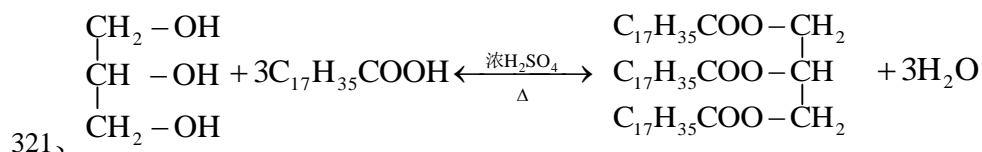
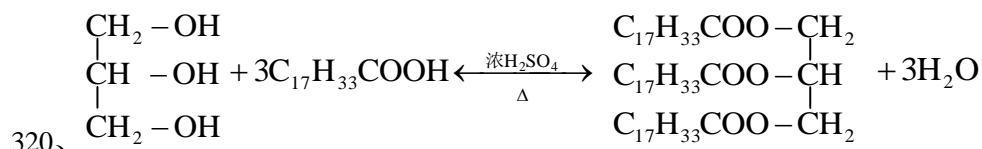
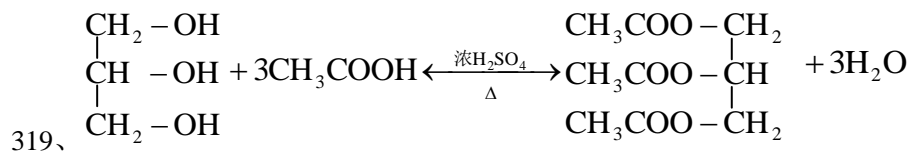
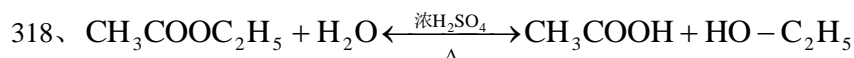
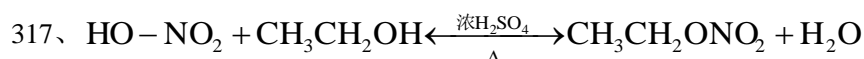
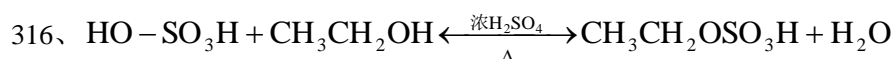
### 第四节 乙酸



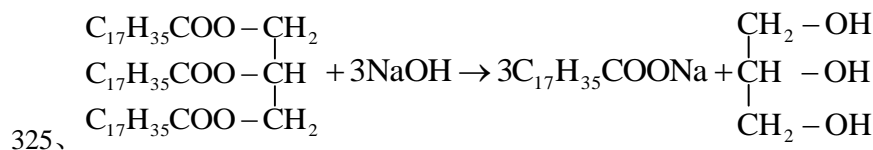
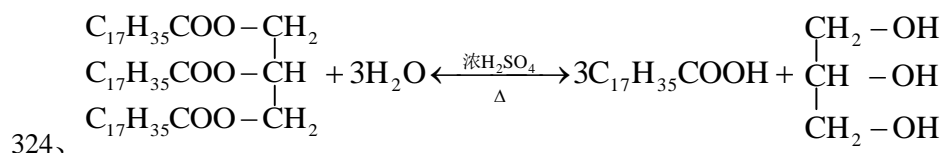
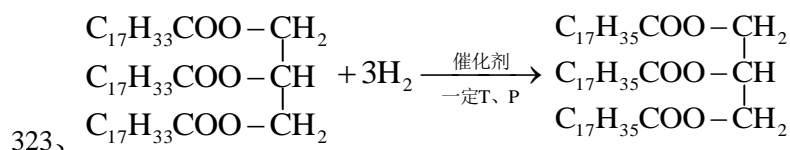




### 第五节 酯



### 第六节 油脂



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原文: <http://huaxuefcs.host.qinggl.com/gaozhong.html>