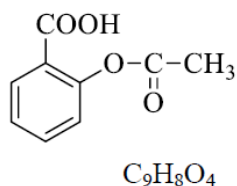


## Acetylsalicylic Acid Tablet



**FG=180.2 M.P=143°C**

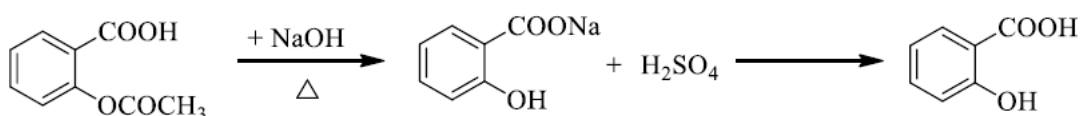
Acetylsalicylic Acid contained in the tablet, the average weight of  $C_9H_8O_4$ , the amount of Acetylsalicylic Acid can not be less than 99.5% or more than 101%.

*Properties:* White, crystalline powder or colorless crystals.

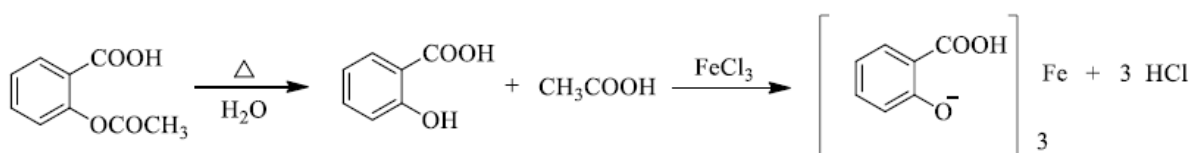
*Solubility:* slightly soluble in water, good soluble in alcohol, soluble in ether.

### Recognition Reactions:

Add 4 ml of NaOH TS over 0.2 g of the sample and boil for 3 minutes. cooled and 5 ml of dilute  $H_2SO_4$  was added. White precipitate is formed.



Approximately 0.5 g of the powdered sample is taken. 50 ml of distilled water is added, and boiled for 5 minutes. When 1-2 drops of Ferri chloride TS is added, purple-red color is formed.



### *Quantity Determination:*

20 tablets are weighed and powdered. 30 ml of 0.5 N NaOH is added to the fully weighed amount of this powder corresponding to about 0.5 g of acetylsalicylic acid. Phenol ftalein indicator is added. The excess alkaline was titrated with 0.5N hydrochloric acid (back titration).

1 ml 0.5 N NaOH is equivalent to.....0.04505 g  $C_9H_8O_4$ .

*Storage:* Store in tightly closed containers.

*Reagents to be prepared:*

NaOH TS: NaOH R 8% w/v solution in water

Dilüe H<sub>2</sub>SO<sub>4</sub> R: 57 ml H<sub>2</sub>SO<sub>4</sub> R water is completed with 1000 ml.

Ferriklorür TS: Ferriklorür R, 4.5% w/v solution in water.

0.5 M NaOH: Take 20 g of NaOH R and complete with 1 ml of distilled water.

0.5 N H<sub>2</sub>SO<sub>4</sub>: Take 12.63 ml from H<sub>2</sub>SO<sub>4</sub> and complete with 1 ml of distilled water.