

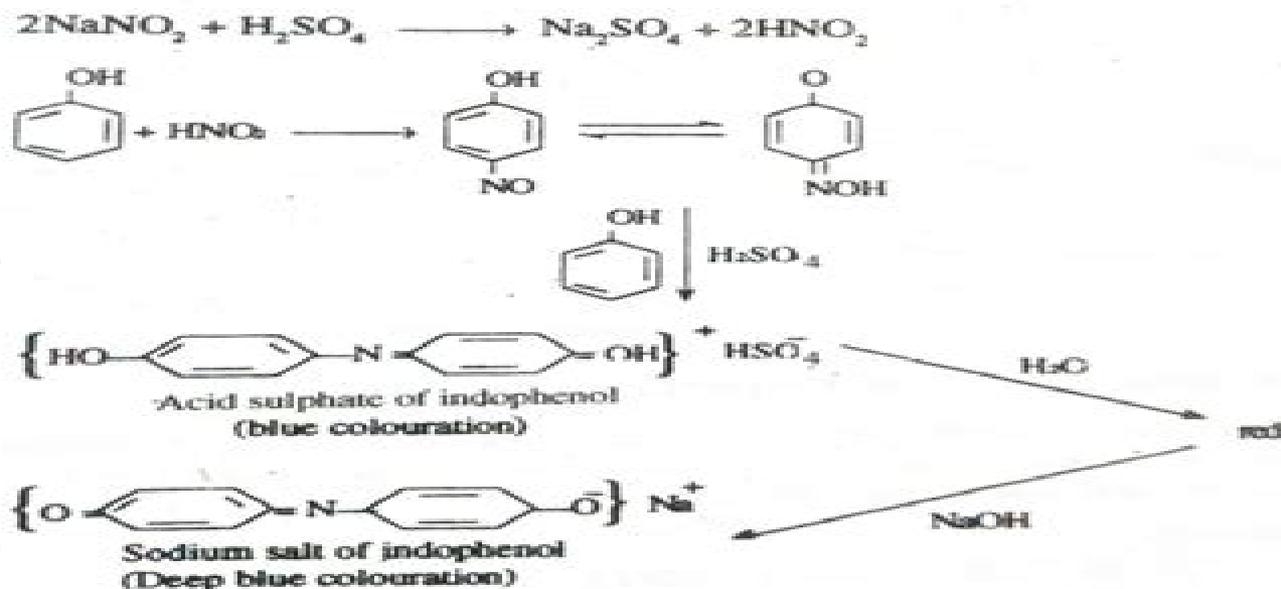
## 5.2 PHENOLIC GROUP (ArOH)

Phenols are colourless but attain colour due to oxidation. Moreover, they are acidic and dissolve in 5% NaOH. Phenols are generally highly reactive in electrophilic aromatic substitution. On bromination (bromine water) of phenol, 2, 4, 6 - tribromophenol is obtained.

- (i) Litmus paper test      (ii)  $\text{NaHCO}_3$  test      (iii)  $\text{FeCl}_3$  test  
 (iv) Bromine water test      (v) Azodye test ✓  
 (vi) Liebermann nitroso reaction

Dissolve 0.2 g of the substance in 2 mL conc.  $\text{H}_2\text{SO}_4$  and add a few crystals of  $\text{NaNO}_2$  — a blue colouration develops immediately which becomes red on dilution with water. Add NaOH in excess. The colour changes to green, blue or violet. Among dihydroxyphenols only resorcinol gives a satisfactory positive test.

### Chemical reaction



Only those phenols possessing a free para position respond to this test.

# Chemistry Test Functional Groups Chapter 23

**M Tight**



**Chemistry Test Functional Groups Chapter 23:**

## **Chemistry Test Functional Groups Chapter 23** Book Review: Unveiling the Power of Words

In a global driven by information and connectivity, the energy of words has be more evident than ever. They have the ability to inspire, provoke, and ignite change. Such may be the essence of the book **Chemistry Test Functional Groups Chapter 23**, a literary masterpiece that delves deep to the significance of words and their affect our lives. Published by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we will explore the book is key themes, examine its writing style, and analyze its overall effect on readers.

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