## EXPERIMENT No.10

AIM: To test the presence of phenolic group in the given organic compound.

## PROCEDURE:

Phenol indophenol (red)

S.No	EXPERIMENT		OBSERVATION		INFERENCE	
1	LITMUS TEST Organic compound + few drops of blue litmus solution.		Blue litmus turns red.		Phenolic –OH group present.	
2	NEUTRAL FeCt, TEST Organic compound + few drops of neutral FeCt <sub>3</sub> solution.		A violet colouration is obtained.		Phenolic -OH group present.	
3	LIEBERMANN NITROSO TEST Organic compound + sodium nitrite + conc. H <sub>2</sub> SO <sub>4</sub>	grob tur ad Th co	deep blue or een colouration is tained which rns red on the dition of water. lee blue or green lour reappears on e addition of		nolic –OH group ent.	
2. PI ↔ O =	$(PHENOL + FeCl_3 \rightarrow NaNO_2 + H_2SO_4)$ henol (structure) NaNO_2 + H_2SO_4 $- NOH \qquad conc$	g.	F SO <sub>4</sub> / PHENOL(st	IO ructui	o -N=O	
[HO (Deep		'] Н	SO <sub>4</sub> H <sub>2</sub> O	•		
[HO		N	aOH Sodium sa	lt of p	phenol indophenol	

RESULT: (ON RULED SIDE) Phenolic -OH present in the given organic compound.

(blue)