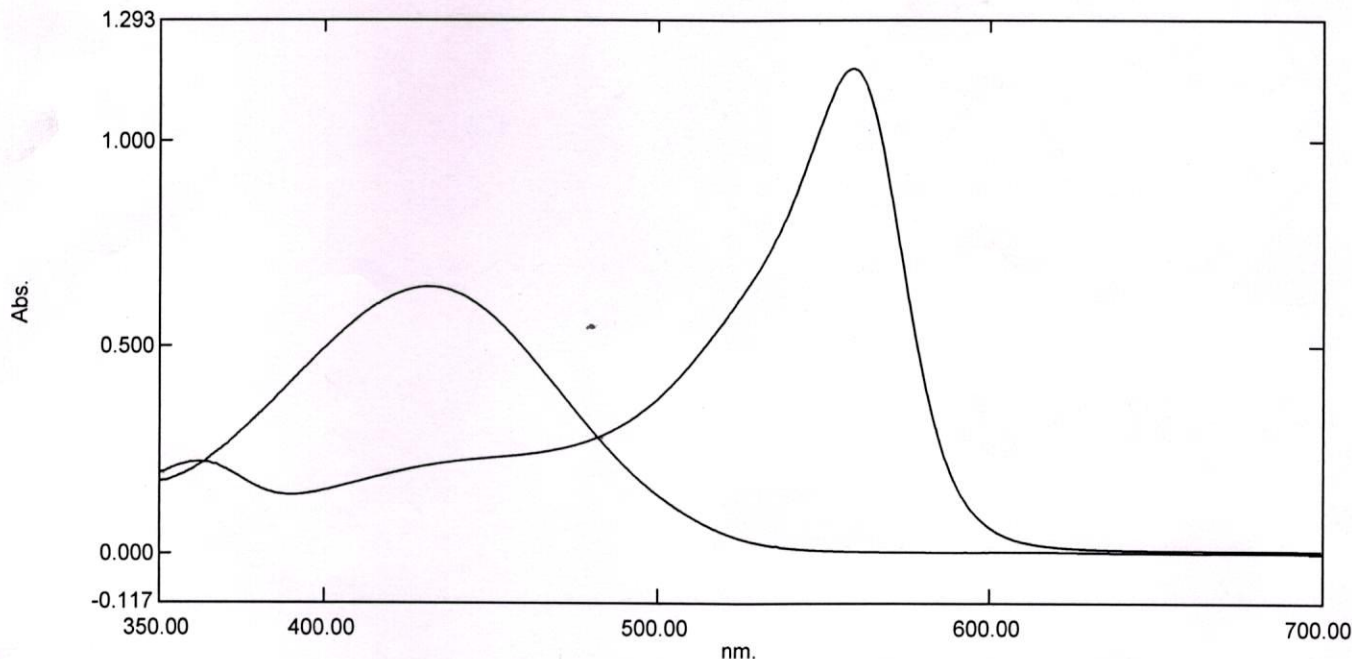


Product Name : PHENOL RED (free acid) ,c= 10mg/Lt
 Analyst: U.S.Matre
 Department: Analytical
 Organisation: ESJAY CHEMICALS



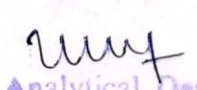
CERTIFICATE OF ANALYSIS

PRODUCT : PHENOL RED (free acid)
 C.A.S. NO. : 143 - 74 - 8

TYPICAL COA

<u>Tests</u>	<u>Results</u>	<u>Specification</u>
1. Appearance	- Dark red powder	(Bright red to dark red pd)
2. Transition range	- pH 6.5 - 8.2 Yellow - Red violet	(Passes test)
3. Solubility 0.1% (Ethanol)	- Clear solution	(Passes test)
4. Absorptivity 1%/ 1cm, (pH 8.2, at λ max.558.6nm)	- 1169	(1100 -1200)
(pH 6.5, at λ max.431.2nm)	- 682	(600 -700)
5. Dye content by Spectrophotometry	- 97.4%	(>95%)
6. Loss on drying at 110°C (1hr)	- 0.73 %	(<1%)
7. Transition range acc. to ACS	- Passes test	(Passes test)

Mfg.Date : SEPT - 2023
 Exp.Date : AUG - 2029

ESJAY Chemicals

 Analytical Dept