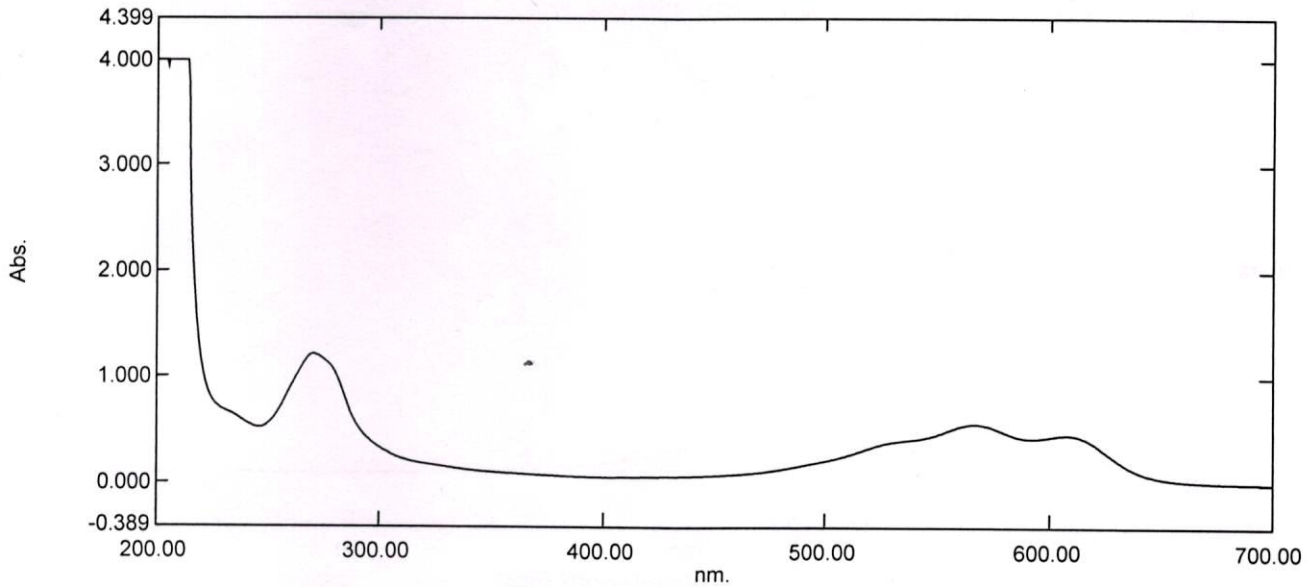


Product Name : ALIZARIN 97% , c=10mg/Lt  
 Analyst: U.S.Matre  
 Department: Analytical  
 Organisation: ESJAY CHEMICALS



No.	P/V	Wavelength	Abs.	Description
1	Ⓢ	607.50	0.465	
2	Ⓢ	567.00	0.565	
3	Ⓢ	270.50	1.220	

### CERTIFICATE OF ANALYSIS

PRODUCT : ALIZARIN 97%  
 C.I.NO. : 58000  
 C.A.S.NO. : 72 - 48 - 0

### TYPICAL COA

<u>Tests</u>	<u>Results</u>	<u>Specification</u>
1. Appearance	: Dark yellow powder	(passes test)
2. Transition range	: pH 5.5 – 6.8 Yellow – red	(passes test)
3. Absorptivity 1%/1cm (0.1N NaOH at 607.5nm)	: 465	(> 458)
4. Dye content by Spectrophotometry	: 98.5 %	(> 97%)
5. Wavelength (c=0.01 g/L; 0.1N Sodium Hydroxide)		
Extinction Coefficient at 607.5 nm	: 11169	(>11000)
Extinction Coefficient at 567 nm	: 13571	(>12000)
Extinction Coefficient at 270.5 nm	: 29305	(>26000)
Extinction Coefficient at 227nm	: 14130	(>13000)
6. Solubility (Turbidity) c= 1 mg/ml, 1N NH4OH	: Clear solution	(Clear to Turbid)
7. Solubility (color)	: Dark purple	(Purple to Very Dark purple)
8. Loss on drying (110°C)	: 1.57 %	(< 3%)

Mfg.Date : MARCH - 2023  
 Exp.Date : FEB - 2029

**ESJAY Chemicals**

*U.S. Matre*  
 Analytical Dept