

Certificate of Analysis

Date of Testing: 2025-04-18 19:08:41

Date of Next Testing: 2028-04-17 19:08:41

Product Name: **Methyl orange (C.I. 13025)**

CAS Number: 547-58-0

Specifications & Purity: indicator, ACS, Ph.Eur.

Lot #: D2517685

SKU #: **M432889**

Version: **1**

Analysis #: **492895**

Storage Temperature: Room temperature

Parameter	Limit Values	Result
Absorption maximum $\lambda_{1\max}$ (buffer pH 3.1)	501-505 (nm)	503.00000 nm
Absorption maximum $\lambda_{2\max}$ (buffer pH 4.4)	466-471 (nm)	468.00000 nm
Spec. Absorptivity A 1%/1cm (501-505nm ; 0.01g/L ; buffer pH 3.1 ; calc. on dried substances)	1000-1150	1050.49505
Spec. Absorptivity A 1%/1cm (466-471nm ; 0.01g/L ; buffer pH 4.4 ; calc. on dried substances)	730-850	762.37624
Loss on drying(110°C)	0-5 (%)	4.95 %
Clarity of solution(1g/L water)	Pass	Pass
Transition range: pH 3.1(pink) - pH 4.4(orange yellow)	Confirmed	Confirmed



John Su
QA & QC Manager