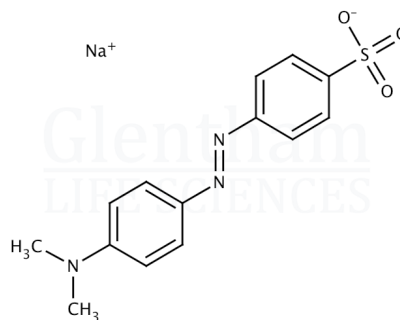


Certificate of Analysis

Product Name Methyl Orange (C.I. 13025)
Glentham Code GT1067
CAS Number 547-58-0
EINECS 208-925-3
Colour Index 13025
MDL Number MFCD00007502
PubChem SID 310276946
Batch Number 674EUP

Molecular Weight 327.34
Molecular Formula $C_{14}H_{14}N_3NaO_3S$
Storage Temp. +20°C



Property	Specification	Batch 674EUP
Physical Description	Orange to dark orange powder	Dark orange powder
Solubility (0.1% in water)	Clear, orange solution	Clear, orange solution
pH Transition Range	3.1 - 4.4 (pink to orange-yellow, ACS)	Conforms
Wavelength of Maximum Absorption (λ_{max})	465 - 474 nm (λ_{max1} , pH 4.4)	468.2nm
	497 - 507 nm (λ_{max2} , pH 3.1)	504.0nm
Absorptivity (1%/1cm)	750 - 850 (at λ_{max1})	774
	1050 - 1150 (at λ_{max2})	1112
Loss on Drying	$\leq 3.0\%$ (110°C, 1h)	1.29%
Dye Content	$\geq 95.0\%$	96.6%

Specification Version v1.1
Manufacture Date 2018-09-01
Re-Test Date 2030-08-28

Glentham Life Sciences confirm that the above referenced product conformed to the information displayed in this document on the quality release date. Please check www.glentham.com or contact us using the details above for the current version of this document.

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