

# Certificate of Analysis

product name: Methyl red  
product number: 106076  
CAS Number: 493-52-7  
batch: 1854642 5041  
Formula:  $C_{15}H_{15}N_3O_2$

## batch values

Identity (UV/VIS-Spectrum)	passes test
Appearance	Red to red-violet powder, eventually with granular parts.
Clarity of solution (1 g/l; ethanol)	passes test
Melting point (capillary method, temperature measurement in the heating block)	179 - 182 °C
Transition range	pH 4.4 - pH 6.0 Red - yellow
Absorption maximum (buffer pH 4.5)	523 - 526 nm
Absorption maximum (buffer pH 6.2)	427 - 437 nm
Spec. Absorptivity A 1%/1cm ( $\lambda_{max}$ ; 0.005 g/l; buffer pH 4.5; calculated on anhydrous substance)	1350 - 1500
Spec. Absorptivity A 1%/1cm ( $\lambda_{max}$ ; 0.005 g/l; buffer pH 6.2; calculated on anhydrous substance)	700 - 800
Transition range (according to ACS)	passes test
Loss on drying (110 °C)	≤ 5 %

This document has been produced electronically and is valid without a signature