

# 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,<br>eventually with<br>granular parts. |
| Clarity of solution (1 g/l; ethanol)   | passes test   |
| Melting point (capillary method, temperatur<br>measermant in the heating block)                                    | 179 - 182 °C  |
| Transition range   | pH 4.4 - pH 6.0<br>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;<br>buffer pH 4.5; calculated on anhydrous<br>substance) | 1350 - 1500   |
| Spec. Absorptivity A 1%/1cm ( $\lambda_{max}$ ; 0.005 g/l;<br>buffer pH 6.2; calculated on anhydrous<br>substance) | 700 - 800   |
| Transition range (according to ACS)  | passes test   |
| Loss on drying (110 °C)  | ≤ 5 %   |

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