

## Certificate of Analysis

**Product Name:** METHYLENE BLUE SOLUTION  
for microscopy, concentrate according to Ehrlich,  
concentrated, aqueous solution

**Product Number:** 03978

**Batch Number:** BCBZ7328

**Brand:** Sigma

**CAS Number:** 61-73-4

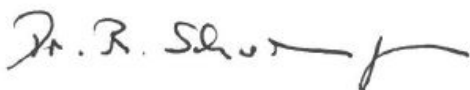
**Formula:** C<sub>16</sub>H<sub>18</sub>ClN<sub>3</sub>S

**Formula Weight:** 319.85

**Quality Release Date:** 30 NOV 2018

**Recommended Retest Date:** MAY 2021

TEST	SPECIFICATION	RESULT
APPEARANCE (COLOR)	BLUE TO VERY DARK BLUE	DARK BLUE
APPEARANCE (FORM)	LIQUID	LIQUID
THIN LAYER CHROMATOGR.	CORRESPONDS TO STANDARD	CORRESPONDS TO STANDARD
DENSITY D20/4	0.850 - 1.140	0.968
WAVELENGTH (1) (UV)	656.0 - 666.0 NM	663.6 NM
EXTINCTION (1%/1CM) (1) (UV)	--	11.1
SOLVENT (UV)	H2O	WATER



Dr. Reinhold Schwenninger  
Quality Assurance  
Buchs, Switzerland

Sigma-Aldrich warrants that at the time of the quality release or subsequent retest date this product conformed to the information contained in this publication. The current specification sheet may be available at Sigma-Aldrich.com. For further inquiries, please contact Technical Service. Purchaser must determine the suitability of the product for its particular use. See reverse side of invoice or packing slip for additional terms and conditions of sale.