

### Certificate of Analysis

**Product: Methylene Blue Trihydrate**  
**Item Number: MBTHGA**  
**Grade: Reagent**  
**Lot Number: 5001934/1.1**  
**Manufacture Date: 10/01/2025**  
**Expiration Date: 09/30/2030**  
**Country of Origin: India**

Tested Property	Specification	Analysis
Assay, as is basis	80 - 85%	81.21
Purity by UV	98 - 103%	98.18
Loss on drying (at 100 °C)	8 - 16%	10.04
Residue on ignition	<1.2%	0.46
Arsenic	<8 ppm	None Detected
Copper	<200 ppm	71
Zinc	<100 ppm	94
Appearance	Dark Green Crystalline Powder	Conforms
Solubility	Clear blue solution	Conforms
Absorptivity 1%, 1cm, at max, 663.0 nm	2200 - 2700	2250
Residual Solvent	Nil	Nil
Heavy Metal	≤8 ppm	5
Identification by IR	Conforms to structure	Comforms
Organic Volatile Impurities	To Pass Test	Passes
Chromatographic Purity	To Pass Test	Passes

Store in a cool, dry, and well-ventilated environment.  
CAS RN: 7220-79-3

#### [Methylene Blue Trihydrate](#)

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