



## UNISOURCE CHEMICALS PRIVATE LIMITED

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AN ISO 9001:2015 & GMP CERTIFIED COMPANY

### **Product Information**

### **TECHNICAL DATA SHEET / Specification Sheet**

#### **New methylene blue**

Synonym	: Basic blue 24, Methylene Blue N
Molecular Formula	: $C_{18}H_{22}ClN_3S \cdot 0.5ZnCl_2$
Molecular Weight	: 416.05
CAS No.	: 6586-05-6
Colour Index No.	: 52030
Shelf Life	: 5 years

#### **Technical Specification**

Appearance	: Brown to dark brown or deep purple crystals or powder
Solubility	: 5 ppm solution in water yields clear blue solution
FTIR (KBr disc)	: Matches with the standard pattern.
Absorption maxima1 (5 ppm in water)	: 629 - 635 nm
Absorption maxima2 (5 ppm in water)	: 588 - 594 nm
Absorption maxima3 (5 ppm in water)	: 284 - 290 nm
Absorption maxima4(5 ppm in water)	: 242 - 248 nm
Molar extinction coefficient 1	: $\geq 44000$ (5 ppm in water at 629-635 nm)
Molar extinction coefficient 2	: $\geq 36000$ (5 ppm in water at 588-594 nm)
Molar extinction coefficient 3	: $\geq 28000$ (5 ppm in water at 284-290 nm)
Molar extinction coefficient 4	: $\geq 16000$ (5 ppm in water at 242-248 nm)