

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 - 248nm
Molar extinction coefficient 1	: ≥ 44000 (5 ppm in water at 629-635 nm)
Molar extinction coefficient 2	: ≥ 36000 (5 ppm in water at 588-594 nm)
Molar extinction coefficient 3	: ≥ 28000 (5 ppm in water at 284-290 nm)
Molar extinction coefficient 4	: ≥ 16000 (5 ppm in water at 242-248 nm)