



UNISOURCE CHEMICALS PRIVATE LIMITED

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AN ISO 9001:2015 & GMP CERTIFIED COMPANY

Product Information

TECHNICAL DATA SHEET / Specification Sheet

Malachite green oxalate

Synonym	: Basic Green 4
Molecular Formula	: $C_{50}H_{52}N_4O_8 \cdot C_2H_2O_4$
Molecular Weight	: 927.00
CAS No.	: 2437-29-8
Colour Index No.	: 42000
Shelf Life	: 5 years

Technical Specification

Appearance	: Green to dark green to metallic green crystals or powder
Solubility	: 20 ppm in water yields dark blue to dark green clear solution
Visual pH transition	: pH 0.0 (yellow) - pH 2.0 (green) pH 11.6 (blue-green) - pH 14.0 (colourless)
FTIR (KBr disc)	: Matches with the standard pattern
Absorption maxima (20 ppm in water)	: 614 - 620 nm
Specific absorbance	: ≥ 1700 (2 ppm in water at 614 - 620 nm)
Loss on drying (at 110°C)	: $\leq 5.00\%$
Dye content	: $\geq 90.0\%$