

Malachite Green

Green dye for various applications

Product Description

Malachite green dye used in textiles, paper, and biological staining.

Certificate of Analysis

HSN Code: 3204.13

CAS Number: 569-64-2

Classification: Hazardous

Parameter	Specification	Test Method
Chemical Name	Malachite Green (C.I. Basic Green 4)	-
Molecular Formula	$C_{16}H_{12}N_6$	-
Molecular Weight	364.92 g/mol	-
Appearance	Green crystalline powder	Visual
Assay (Dye Content)	Min 95%	Spectrophotometric / UV-Vis
Moisture Content	Max 1.0%	Gravimetric
Solubility	Soluble in water and alcohol	Visual
» max (in water)	617 ± 2 nm	UV-Vis Spectroscopy
pH (1% solution)	4.0 – 5.0	pH Meter
Insoluble Matter	Max 0.5%	Filtration / Gravimetric
Residue on Ignition	Max 0.3%	Gravimetric
Tinting Strength	±5% of standard	Visual / Comparative

Physical Properties

Appearance: Green crystalline powder

Solubility: Soluble in water and alcohol

Packing: 25 kg HDPE drums, 25 kg fiber drums, 1 kg or 5 kg sealed plastic containers for laboratory grade

Storage: Store in a cool, dry, and well-ventilated place. Protect from light and moisture. Keep container tightly closed. Store in original container.

Safety & Handling

PPE: Gloves, goggles, dust mask

Hazards:

- Acute toxicity
- Eye irritation
- Skin irritation
- Aquatic toxicity