CATO Research Chemicals Inc.

Make the Tests More Accurate

ISO 17034 : 2016 | ISO 9001 : 2015

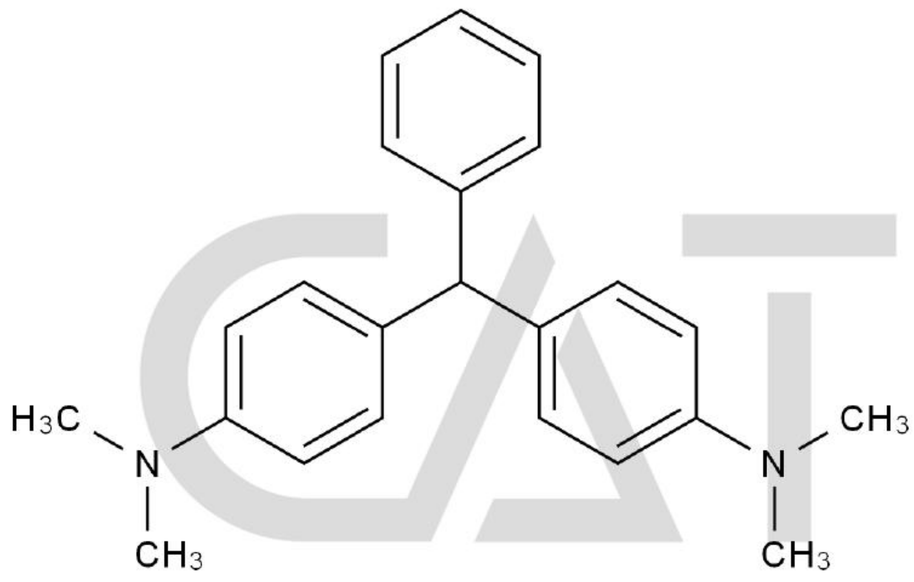
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Certificate of Analysis

Reference Material & Standard

Product Name:	Leucomalachite Green	**Catalogue Number:**	CCAD300279
Synonyms:	N/A	**Lot Number:**	0413-RB-0026
CAS Number:	129-73-7	**Expiry Date:**	Nov 13, 2029
Molecular Formula:	$C_{23}H_{26}N_2$	**Storage:**	Room Temp Protected from light and Sealed
Molecular Weight:	330.47	**Shipping Condition:**	Shipping at Room Temperature
Solubility:	Acetonitrile	**Warning:**	

Chemical Structure:



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Test Items	Method	Results
Appearance	Visual inspection	White to Off-White Solid
Identification	LCMS&HNMR	Confirmed
Purity	HPLC	96.6567%
Loss On Drying	TGA	0.6119%
Assay		96.1%
Uncertainty		±0.7%

Comment:

1. The calculation of the mass balance method follows the formula (calculated on the non-dried basis):
*Assay (%) = (100%-Loss On Drying) * Purity HPLC (%) /100%*
Loss On Drying is considered as absolute effect, HPLC purity is considered as relative effect.
2. The uncertainty values are the expanded uncertainty and represent an estimated standard deviation equal to the positive square root of the total variation of the uncertainty of components. A normal distribution is assumed and a coverage factor of K=2 is chosen using approximately a 95% confidence level.

Signature:

Prepared by: Lisa Date: Nov 14, 2025

Reviewed by: Hinlam Date: Nov 15, 2025

Approved by General Manager: David Date: Nov 15, 2025

CATO Research Chemicals Inc.

Add: 3rd Floor, Building B, No.179, Guangpu Rd East, Huangpu District, Guangzhou, China
Tel: +86-20-81960175 Email: supports@cato-chem.com Web: Https://www.cato-chem.com

ANAB ANSI National Accreditation Board ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER AR-2832

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