

Chemical Information:

Name: Malachite green oxalate
CAS No.: 2437-29-8 Supplier: TCI America
Tox21_ID No.: Tox21_202521 Lot No.: HC01
NTP_CID No.: 914 MW: 463.50 g/mol

Date of Analysis: 3 August 2017

Purity and Identity Results:

Peak Identity	Retention Time (min)	Purity (% Total Area) ^a
Malachite green oxalate ^b	35.31	97.93
Unknown	37.57	2.07

^a Peaks comprising $\geq 0.5\%$ of total area.

^b Identified as Leucomalachite (CAS No. 129-73-7, MW 330.47); oxalate not observed.

GC/MS Instrument Parameters:

Instrument / Ionization	Gas Chromatograph with Mass Spectrometer / Electron Impact
Solvent	Methanol
Column	Restek Rtx-5MS with Integra-Guard, 30 m x 0.25 mm ID, 1- μ m film thickness
Carrier Gas	Helium at 1.5 mL/min
Oven Program	40°C, hold 2 min; ramp @ 10°C/min to 310°C, hold 30 min
Source Temperature	250°C
Auxiliary Temperature	250°C
Scan Range	40 – 550 amu
Injector Temperature	250°C
Injection Volume / Mode	1 μ L / Splitless
Data Analysis Software	MassHunter GC/MS Acquisition B.07.02.1938 / MassHunter Qualitative Analysis B.07.00 Build 7.0.7024.0 / NIST Library Version 2.2 Build 2014

