LGC | DR EHRENSTORFER™

Reference Material

REFERENCE MATERIAL CERTIFICATE

This certificate is designed in accordance with ISO Guide 31. This reference material (RM) was designed, produced and verified in accordance with a registered quality management system ISO 9001. All measurements were performed according to ISO/IEC 17025 by an A2LA accredited laboratory (3031.01)

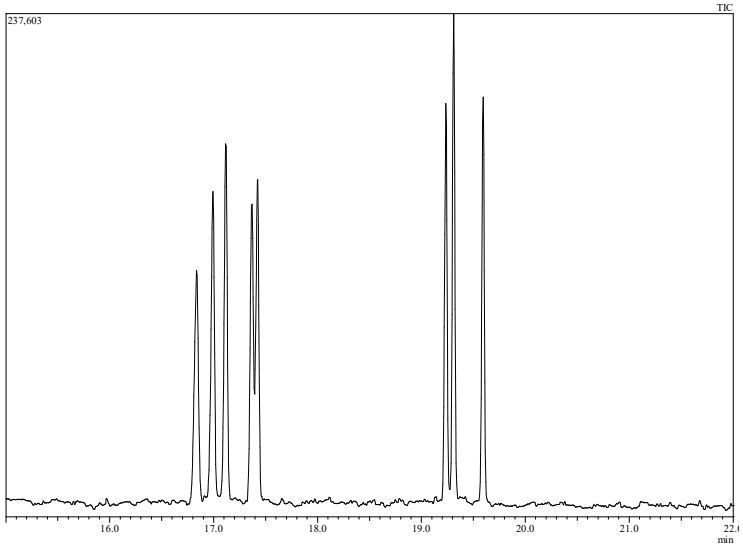
Product Name	Product Code	Lot Number	Format	Expiry Date	Storage Temp
Custom Standard 834-12-8 ametryne 100.0 µg/mL in acetone	DRE-Q65003669	2-G468242AC	Multicomponent Solution	6 Dec 2025	≤ -10 ºC

Compound Name	CERTIFIED Concentration (ug/mL)	Uncertainty (ug/mL)	CAS	Lot Number	Combined Purity (%)	Amount (mg)	RT (min)
Simazine	100.9	2	122-34-9	916.29.1P	99.9	0.12	16.85
Atrazine	99.5	2	1912-24-9	337.7.3P	99.5	0.12	17.00
Propazine	99.2	2	139-40-2	334.18.2P	99.2	0.12	17.13
Trietazine	100.1	2	1912-26-1	4700.421.1P	98.14	0.12	17.38
Terbuthylazine	98.69	2	5915-41-3	684.421.3.1P	98.69	0.12	17.43
Ametryne	99.96	2	834-12-8	913.286.1P	98	0.12	19.24
Prometryn	99.9	3	7287-19-6	329.421.3P	99.9	0.12	19.32
Terbutryne	98.98	2	886-50-0	915.3.4P	98	0.12	19.60

The producer certifies that this reference material meets the specification stated in this certificate until the expiry date, provided it is stored unopened at the recommended temperature herein. Product warranties for this reference material are set out in the terms and conditions of purchase.

CERTIFIED BY	CERTIFIED ON		
Susan Mathews	18 Nov 2021	Susan Mathews	RM Release

CHROMATOGRAM



Instrument
GC/MS

Detection
MS

Column/Flow
Phenomenex ZB-Semivolatile 30m x 0.25 mm, ID 0.25 um / 1 mL/min

Method Details

Rate	Temp.(C)	Hold time (min)
	40.0	2.0
10.0	100.0	0.0
15.0	250.0	0.0
20.0	345.0	3.25

Inj.-Vol
1 µL

Method of Preparation

The certified value is based on gravimetric and volumetric preparation of this RM. This RM has been confirmed by the appropriate analytical techniques.

Batch Information

Solvent: Acetone, Lot no. 192863, 1.2 mL

Intended Use

This RM is intended for use in a laboratory as a calibration and quality control standard or in method development for analytical techniques.

Safety

Proper precautions should be observed while handling. See Safety Data Sheet.

Uncertainty

The certified value(s) and uncertainty(ies) are determined in accordance with EURACHEM/CITAC Guide for “Quantifying Uncertainty in Analytical Measurements, 3rd Edition”, with an 95% confidence level (k=2). Uncertainty is based on the Characterization Uncertainty, which includes uncertainties of preparation and purity of neat materials.

Traceability

The balances used for gravimetric measurements are calibrated with weights traceable to the national standards (NIST). The calibration of the balances is verified daily internally and annually by an external accredited calibration service. Only Class A glassware is used for volumetric measurements.

Storage

The RM should be stored in the original sealed bottle at the indicated temperature.

Instructions for Use

The RM should be used shortly after opening to avoid concentration changes due to evaporation. It is recommended to use 1 µL as the minimum sample size. If storage after opening is necessary, it should be transferred to an amber vial with minimum head space and a Teflon lined silicon septum. After opening, please consult your own quality management system for proper use and storage. Visit the support section of our website lgcstandards.com for a series of Dr. Ehrenstorfer Tech Tip videos and frequently asked questions.

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