LGC

Dr. Ehrenstorfer

Reference Materials for Residue Analysis

Certificate of Analysis

ISO Guide 34 Reference Material

Product Identification

Article Code: DRE-C12081000
Article Name: 2,4'-DDT
Formula: C14H9Cl5
Mol. Weight: 354.49
CAS No.: 789-02-6

Lot Number: G137925
Expiry Date: 17.03.2023
Storage Temperature: 20°C ± 4°C

Storage and handling: The RM should be stored in the original sealed bottle at the temperatur given above. After use the bottle should be tightly closed and protected from moisture and light. The expiry date is valid for original sealed bottles under recommended storage conditions only.

Purity:	97.68% (g/g)
Expanded Uncertainty U=	0.43% (g/g)

The uncertainty of this standard is calculated in accordance with the ISO Guide 34 and EURACHEM/CITAC Guide - Quantifying Uncertainty in Analytical Measurement, Second Edition. The expanded uncertainty is U(exp) = u(RM) x k, where k is the coverage factor at the 95% confidence level (k=2). Uncertainty u(RM) is based on the combination of the uncertainties associated with each individual operation involved in the analysis of the product: $u(RM) = \sqrt{u(char)^2 + u(bb)^2 + u(lts)^2 + u(sts)^2}$; u(char) is the uncertainty of purity determination; u(bb) uncertainty of homogeneity test; u(lts) uncertainty of stability test long-term; u(sts) uncertainty of stability test short-term. u(lts) and u(sts) are not included in the calculation as the stability statement is based on real evidence opposed to simulation.
Minimum sample: 1 mg is recommended as the minimal sample amount. If less material is used, it is recommended to increase the certified uncertainty by a factor of two for half sample and a factor of four for a quarter of sample.
Intended use: Use this RM as calibrant for chromatography or any other analytical technique.

Analytical Data

Traceability of chromatography: To the International System of Units (SI).

Intrument:	GC/FID	Injector:	320°C
Detection:	FID	Initial Temp:	120°C for 4 min
Column:	Optima-5MS, 0.25 µm, 0.25 mm	End Temp:	320°C for 3 min
Inj.-Vol.:	1 µl	Gradient:	15°C/min
Flow:	1 ml/min		
Ret.Time:	14.53 min		

Comment
Traceability: The balances used are calibrated with weights traceable to the national standards (DKD).
Calibrated class A glassware is used for volumetric measurements.
Certificate Revision 1
Water Content: 0.01% (g/g) by Karl-Fischer-Titration (U(exp) = 0.03% (g/g)).

Identity: EA, NMR, RT, IR

Certified on: 29.05.2017
Certified by: M. Beck

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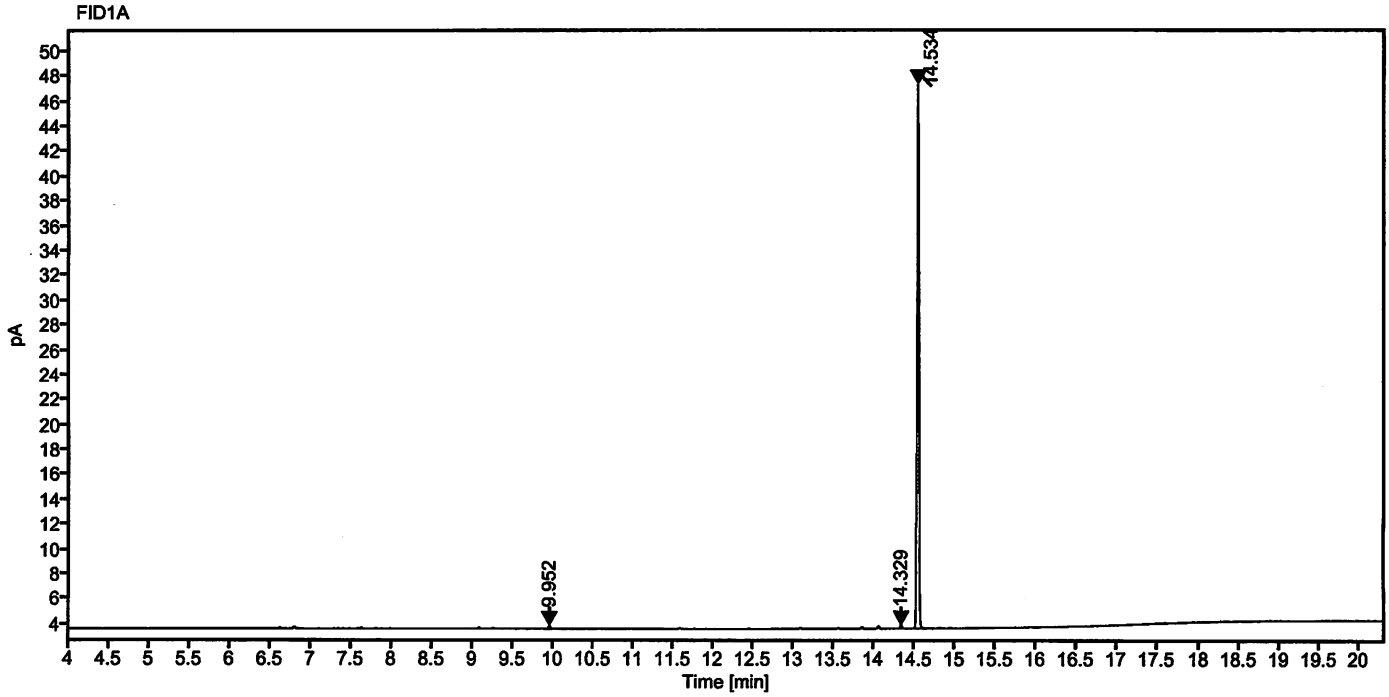
Data file:	12081000-27-r001.dx	**Instrument:**	FID 1
Sample name:	70523CY G137925	**Sequence Name:**	2017KW21-3b
Inj. volume [µl]:	1.0	**Injection date:**	5/25/2017 11:55:31 AM
Acq. method:	PAHK.amx	**Location:**	79

Sample Description 2,4´-DDT



Signal: FID1A

Nr.	RT [min]	Area [pA*s]	Height [pA]	Area%	Width [min]
1	9.952	0.39822	0.28	0.62	0.075
2	14.329	0.45337	0.30	0.70	0.098
3	14.534	63.74087	43.69	98.68	0.163
	Sum	64.59			