Certificate of Analysis

ISO Guide 34 Reference Material

Product Identification

Article Code: DRE-C12210100
Article Name: Diazinon D10 (diethyl D10)
Formula: C12H11N2O3PSD10
Mol. Weight: 314.40
CAS No.: 100155-47-3

Lot Number: G286101
Expiry Date: 20.06.2023
Storage Temperature: 4°C ± 4°C

Storage and handling: The RM should be stored in the original sealed bottle at the temperature given above. After use the bottle should be tightly closed and protected from moisture

Combined Purity:	98.34% (g/g)	Isotopic Purity:	99.31% (g/g)	Chemical Purity:	99.03% (g/g)
Expanded Uncertainty U=	0.42% (g/g)	Expanded Uncertainty U=	0.30% (g/g)	Expanded Uncertainty U=	0.30% (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 characterisation; 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).

Instrument:	GC/FID	Injector:	280°C
Detection:	FID	Initial Temp:	60°C for 5 min
Column:	Optima-5MS, 0.25 µm, 0.25 mm	End Temp:	280°C for 1 min
Inj.-Vol.:	1 µl	Gradient:	15°C/min
Flow:	1.0 ml/min		
Ret.Time:	16.64 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.
Water Content: <0.10% (g/g) by Karl-Fischer-Titration (U(exp) = 0.03% (g/g)).
Identity: NMR, RT, IR, UV, MS

Certificate Revision 1 - 02.05.2018 - M. Beck

Certified on: 02.05.2018
Certified by: M. Beck
RM Release

The LGC Labor GmbH, accreditated by DAkkS as indicated by the accreditation number D-RM-19883-01 & D-PL-19883-01, has shown competence based on ISO Guide 34:2009 with relevant parts of DIN EN ISO/IEC 17025:2005 for production of certified reference materials in form of organic pure substances and in form of single and multi-component solutions of organic pure substances.

LGC Labor GmbH - Bgm.-Schlosser-Straße 6A - 86199 Augsburg - Germany
Phone +49 821 906080 - Fax +49 821 9060888 - augsburg.inquiry@lgcgroup.com

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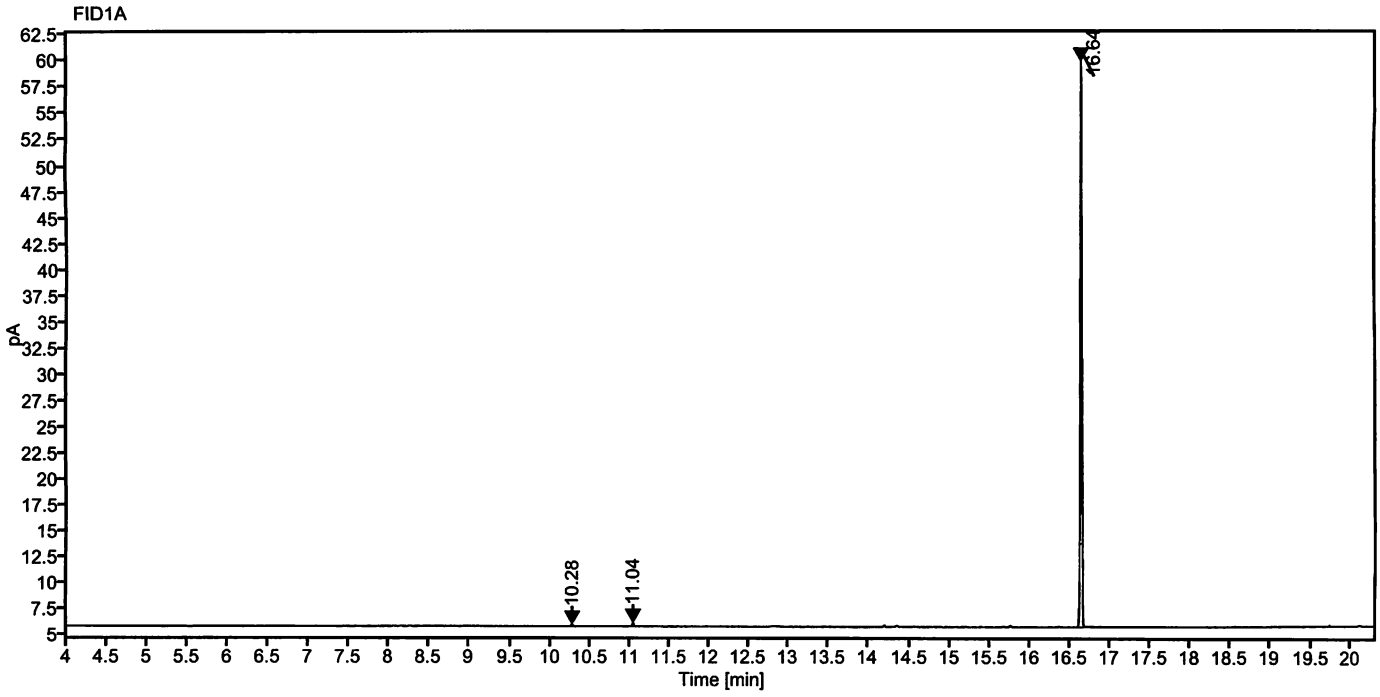
Data file:	12210100-16-r001.dx	**Instrument:**	FID 3
Sample name:	80424AL G286101	**Sequence Name:**	2018KW17-0424-a
Inj. volume [µl]:	1.0	**Injection date:**	4/24/2018 9:43:44 PM
Acq. method:	pesk.amx	**Location:**	74

Sample Description Diazinon D10 (diethyl D10)



Signal: FID1A

Nr.	RT [min]	Area [pA*s]	Height [pA]	Area%	Width [min]
1	10.28	0.21734	0.17	0.30	0.017
2	11.04	0.49024	0.36	0.67	0.019
3	16.64	72.05238	54.12	99.03	0.020
	Sum	72.76			