



Certificate of Analysis

ISO Guide 34 Reference Material

Product Identification

Articel Code: DRE-C13545000
Artikel Name: (E)-Fenpyroximate
Formula: C₂₄H₂₇N₃O₄
Mol. Weight: 421.5
CAS No.: 134098-61-6

Lot Number: G123306
Expiry Date: 04.01.2020
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 closed bottles under recommended storage conditions only.

Purity:	98.99%
Expanded Uncertainty U=	1.48%

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 $U = u(RM) \times k$, where k is the coverage factor at the 95% confidence Level ($k=2$). The expanded uncertainty U 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; $u(lts)$ is uncertainty of stability test long-term; $u(sts)$ is 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: 1mg 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 Unity (SI).

Intrument:	HPLC/DAD	Method Details
Detection:	DAD	Acetonitrile:Water+0.5% H ₃ PO ₄ 9:1
Column:	ReproSil 100 C18 5 µm 250 x 3 mm	
Inj.-Vol.:	3 µl	
Flow:	0.5 ml/min	
Ret.Time:	6.28 min	

Comment

Traceability: The balances used are calibrated with weiths traceable to the national standards (DKD).

Calibrated Class A glassware is used for volumetric measurements.

Certificate Revision 1

Water Content: 0.08% (g/g) by Karl-Fischer-Titration ($U_{Exp} = 0.03\%$ (g/g)).

Identity: EA, NMR, UV, RT, IR, MS

Certified on: 04.01.2017
Certified by: M. Beck

The Laboratory LGC Labor GmbH is accredited by DAkkS as indicated by the Accreditations 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.

Sample Name: 61124CY G123306

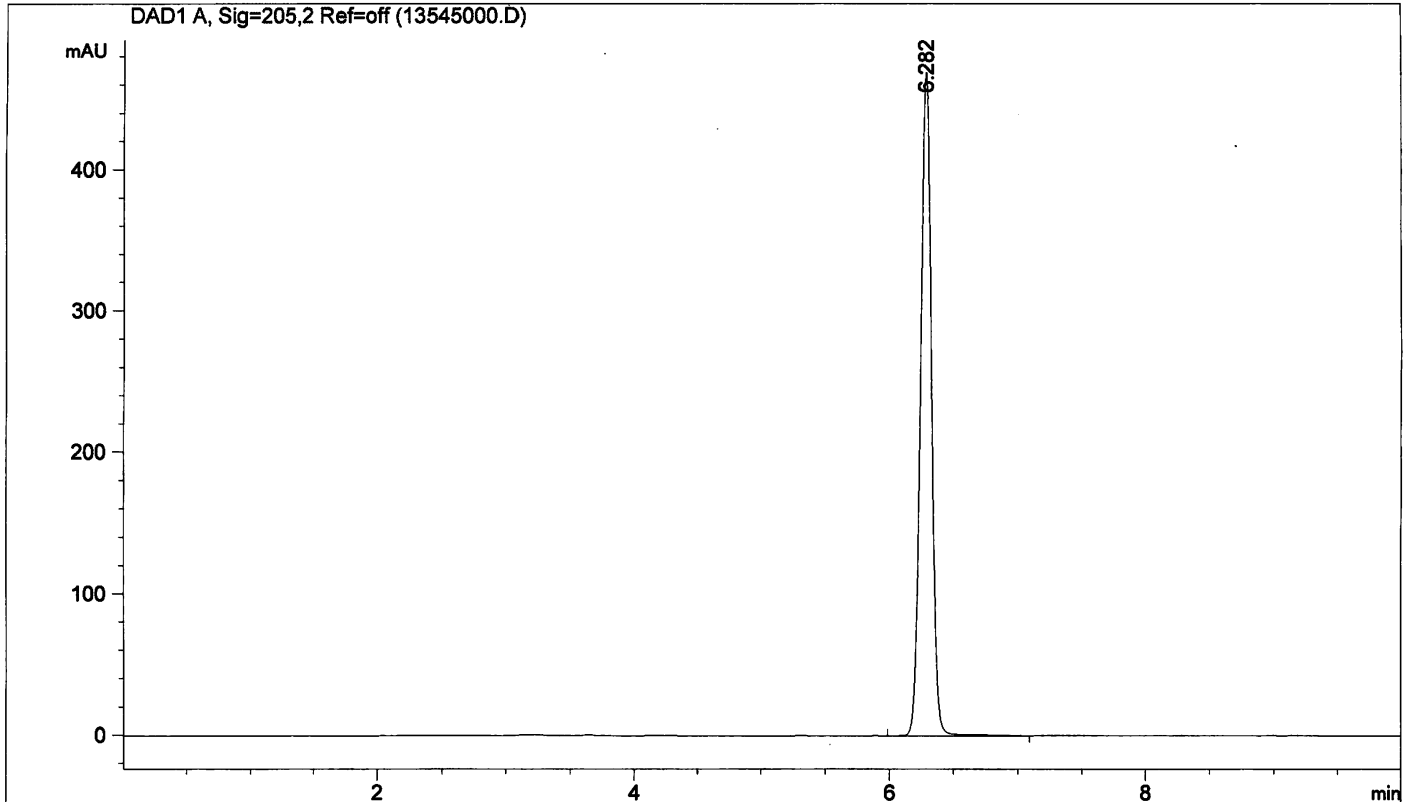
23.12.16

```

=====
Acq. Operator   : SYSTEM                      Seq. Line : 110
Acq. Instrument : LCMS                      Location  : 32
Injection Date  : 29.11.2016 09:43:17      Inj       : 1
                                           Inj Volume: 10.000 µl
Different Inj Volume from Sample Entry! Actual Inj Volume : 3.000 µl
Sequence File   : C:\Chem32\1\Data\2016KW48\251116-2 2016-11-28 15-17-52\251116-2.S
Method          : C:\Chem32\1\Data\2016KW48\251116-2 2016-11-28 15-17-52\91P.M (
                  Sequence Method)
Last changed    : 28.11.2016 15:17:53 by SYSTEM
Method Info     : Acetonitrile : Water + H3PO4 9:1

Sample Info     : (E)-Fenpyroximate
=====

```



```

=====
                          Area Percent Report
=====

```

```

Sorted By      :      Retention Time
Multiplier     :      1.0000
Dilution       :      1.0000
Use Multiplier & Dilution Factor with ISTDs

```

Signal 1: DAD1 A, Sig=205,2 Ref=off

M. Bar

Peak #	RetTime [min]	Sig	Type	Area [mAU*s]	Height [mAU]	Area %
1	6.282	1	BB	2809.18701	470.43488	100.0000

```
Totals :                2809.18701  470.43488
```

*** End of Report ***