

Certificate of Analysis

**EHRENSTORFER™**

ISO Guide 34 Reference Material

Product Identification

Article Code: DRE-C10022000**Article Name:** Acetophenone**Formula:** C₈H₈O**Mol. Weight:** 120.15**CAS No.:** 98-86-2**Lot Number:** G855225**Expiry Date:** 30.05.2024**Storage Temperature:** 20°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

Purity: 99.53% (g/g)**Expanded Uncertainty U=** 0.70% (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 $U(\text{exp}) = u(\text{RM}) \times k$, where k is the coverage factor at the 95% confidence level ($k=2$). Uncertainty $u(\text{RM})$ is based on the combination of the uncertainties associated with each individual operation involved in the analysis of the product: $u(\text{RM}) = \sqrt{u(\text{char})^2 + u(\text{bb})^2 + u(\text{its})^2 + u(\text{sts})^2}$; $u(\text{char})$ is the uncertainty of characterisation; $u(\text{bb})$ uncertainty of homogeneity test; $u(\text{its})$ uncertainty of stability test long-term; $u(\text{sts})$ uncertainty of stability test short-term. $u(\text{its})$ and $u(\text{sts})$ 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: HPLC/DAD**Method Details****Detection:** DAD**Acetonitrile:Water** 4:1**Column:** ReproSil 100 C18 5 µm 250 x 3 mm**Inj.-Vol.:** 10 µl**Flow:** 1.0 ml/min**Ret.Time:** 1.57 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: 0.12% (g/g) by Karl-Fischer-Titration ($U(\text{exp}) = 0.07\%$ (g/g)).

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

Certificate Revision 1 - 30.05.2018 - M. Beck

Certified on: 30.05.2018**Certified by:** M. Beck

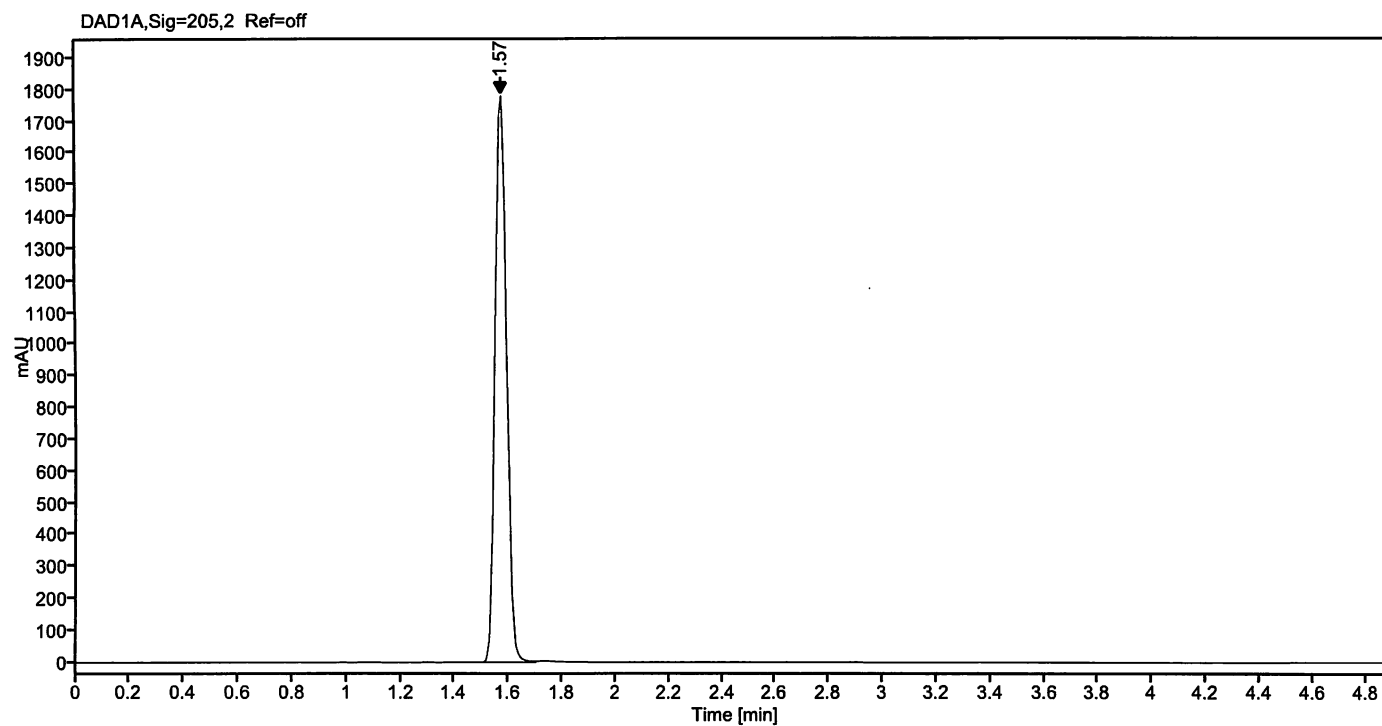
RM Release

The LGC Labor GmbH, accredited 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
The warranty for this product is limited to the purchasing price of this product.

B

Data file: 10022000-09.dx Instrument: DAD5
Sample name: 80525CY G855225 Sequence Name: 28050218-1
Inj. volume [µl]: 10.0 Injection date: 5/28/2018 7:04:22 PM
Acq. method: S1_41K.amx Location: P1-A4
Sample Description Acetophenone



Signal: DAD1A,Sig=205,2 Ref=off

Nr.	RT [min]	Area	Height	Area%
1	1.57	5286.74355	1782.93	100.00
	Sum	5286.74		

A. Beh