

Certificate of Analysis

Dr. Ehrenstorfer



Product Identification

14394600 Isobutylbenzene
CA Benzene, (2-methylpropyl)-
IUPAC (2-Methylpropyl)-benzene
Formula C₁₀H₁₄
Mol.Weight 134.22
CAS No. 538-93-2

Reference Materials for Residue Analysis

Expiry Date 23.03.2023
Lot Number 133366
Store at 20 °C ±4 °C

Please note: The expiry date is valid under recommended storage conditions only.

Toxicological Data



R Code 10-36
S Code 16-26-36
LD50 (Rats female/male in mg/kg) N/A

Physical Data

Phase liquid
Color colourless
Melt.Range Boiling Range (lit.)

Analytical Data

Detection: GC/FID
Column: DB-5, 30 m, ID 0.25 mm
Inj.-Vol.: 1.00 µl
Flow: 1.0 ml/min
Ret.-Time: 10.70 min.

Method Details:
Injector: 200° C
Start Temperature: 40° C for 5 min
End Temperature: 200° C for 16 min
Gradient: 15° C/min

Identity: IR, RT
Comment Purity was confirmed by external standard method

Water Content 0.0 % Determined by Karl-Fischer Titration
Det. Purity 99.8 % Tolerance/Uncertainty +/- 0.5 %

The uncertainty/tolerance of this standard is calculated in accordance with the EURACHEM/CITAC Guide - Quantifying Uncertainty in Analytical Measurement - Second Edition. The uncertainty given is the expanded combined uncertainty and represents an estimated standard deviation equal to the positive square root of the total variance of the uncertainty of components. The expanded uncertainty is U which is $U_c(y) \cdot K$, where K is the coverage factor at the 95% confidence level ($K=2$). The expanded uncertainty is based on the combination of uncertainties associated with each individual operation involved in the preparation of this product.

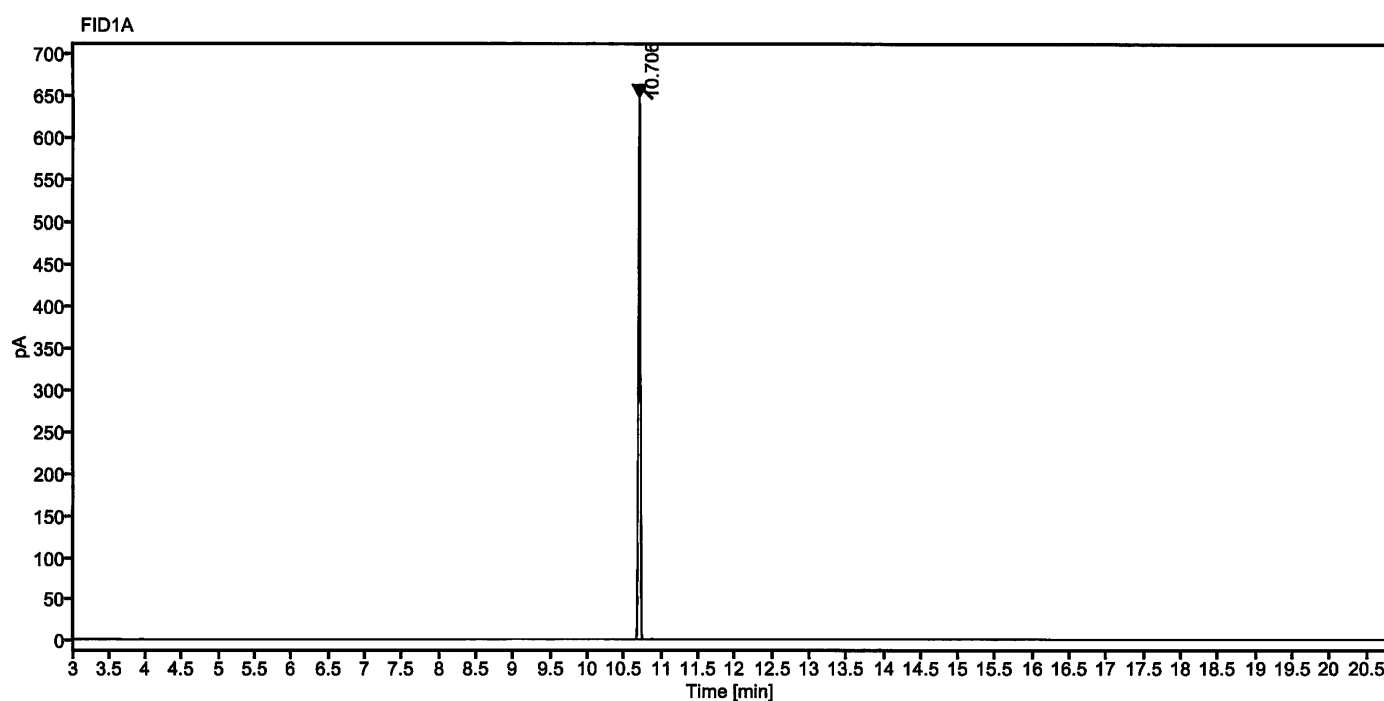
Certified on 23.03.2017

by Dr. K. Wörmann

The Laboratory LGC Labor GmbH is 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 organic pure substances.

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The warranty for this product is limited to the purchasing price of this product.

Data file: 14394600-02 20170313 152319-r001.dx
Sequence Name: 2017KW11-1A **Injection date:** 3/13/2017 4:31:20 PM (GMT +01:00)
Sample name: 70308ME 133366 **Location:** 11
Instrument: FID 1
Inj. volume [µl]: 1.0
Acq. method: 200.amx
Sample Description Isobutylbenzene



Signal: FID1A			
RT [min]	Area [pA*s]	Height [pA]	Area%
10.706	1115.30242	645.94	100.00
Sum	1115.30		

K. Wimmer