Gravimetric Certificate

LGC | DR EHRENSTORFER™

Product Identification

19070002 Mix of Aromatic Hydrocarbons 2

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

Expiry Date 07.11.2021
Lot Number 170627ME
Store at 20°C in the dark

Specification

	Product Name	CAS	Final Conc. (mg/l)	Lot. No.	Purity (%) Conc. (mg/l)	RT (min.)
1	Benzene	71-43-2	10.000	80321ME	10000.000	4.20
2	Ethylbenzene	100-41-4	10.000	80321ME	10000.000	8.67
3	Toluene	108-88-3	10.000	80321ME	10000.000	6.67
4	o-Xylene	95-47-6	10.000	80321ME	10000.000	9.21
5	m-Xylene	108-38-3	10.000	80321ME	10000.000	8.81
6	p-Xylene	106-42-3	10.000	80321ME	10000.000	8.81

Solvent Information

Solvent	Lot No.	Exact Quantity (ml)
Methanol	17114544	1000.00

Traceability Data

19070002 G170673ME 100.000 mg/l
19070002 170627ME 10.000 mg/l

Analytical Data

Detection: GC/FID
Column: DB-5, 30 m, ID 0.25 mm
Inj.-Vol.: 2.00 µl
Flow: 1.0 ml/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 check RT
Comment

The uncertainty/tolerance of this standard is +/- 7.0 %, 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 Uc(y)*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 07.11.2018
by M. Beck

The Laboratory LGC Labor GmbH is 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 organic pure substances.

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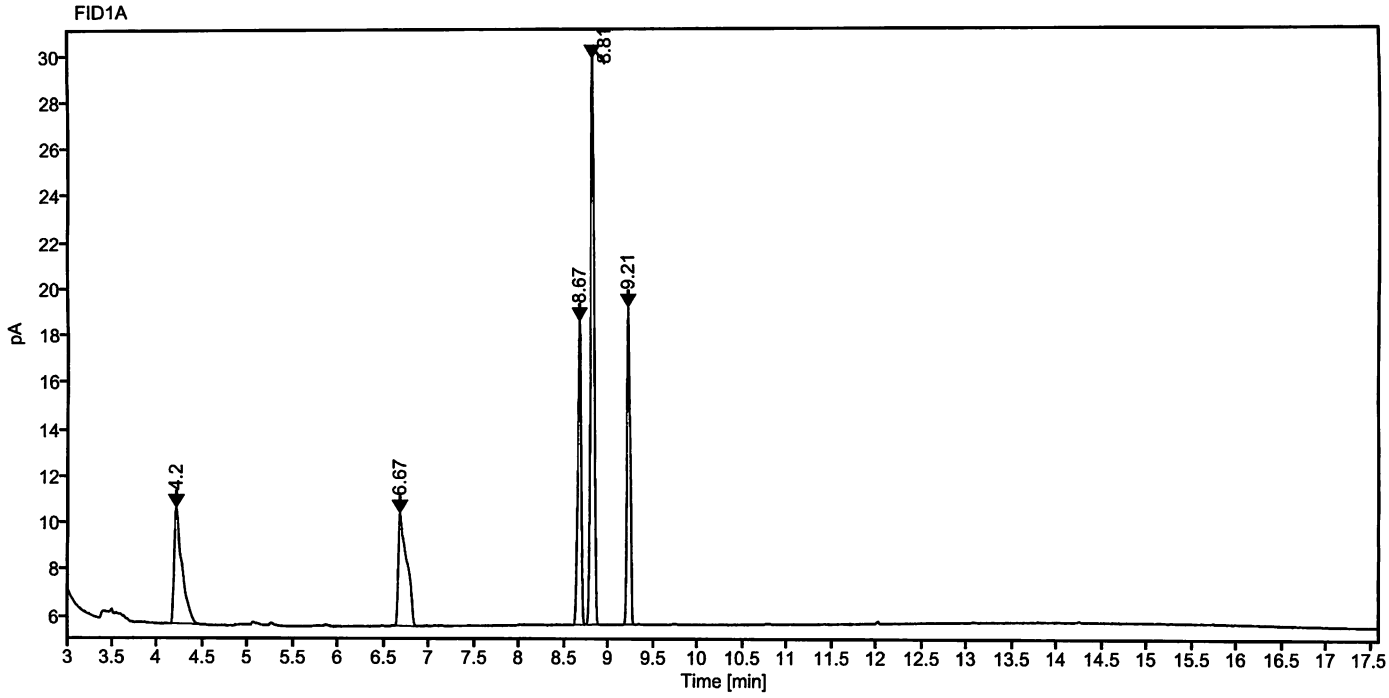
The warranty for this product is limited to the purchasing price of this product.

Data file:	19070002-02-r002.dx	**Instrument:**	FID 3
		Sequence Name:	2018KW12-5a
Inj. volume [µl]:	2.0	**Injection date:**	3/23/2018 3:11:58 PM
Acq. method:	VOC_2.amx	**Location:**	23

Sample Description Mix of Aromatic Hydrocarbons 2



Signal: FID1A

Nr.	RT [min]	Area [pA*s]	Height [pA]	Area%	Width [min]
1	4.20	29.80716	4.97	15.52	0.100
2	6.67	31.09072	4.83	16.19	0.083
3	8.67	32.50752	12.97	16.93	0.042
4	8.81	65.17236	24.21	33.94	0.037
5	9.21	33.46716	13.55	17.43	0.035
	Sum	192.04			