

# Gravimetric Certificate



## Product Identification

20830000 Indeno[1,2,3-c,d]pyrene  
Formula C<sub>22</sub>H<sub>12</sub>  
Mol.Weight 276.34  
CAS No. 193-39-5

Expiry Date 28.08.2021  
Lot Number 752295CY  
Store at 20°C in the dark

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

| Gravimetric Data   |  | Conc. (mg/l)        | Purity % | Weight (mg) |
|--|--|---------------------|----------|-------------|
| Product Name   |  | 10.000              | 99.4     | 3.218       |
| Indeno[1,2,3-c,d]pyrene  |  |                     |          |             |
| Solvent Information  |  |                     |          |             |
| Solvent  | Lot No.  | Exact Quantity (ml) |          |             |
| Cyclohexane  | I092831778   | 320.00              |          |             |
| Traceability Data  |  |                     |          |             |
| 20830000 149840  | neat product   |                     |          |             |
| 20830000 752295CY  | 10.000 mg/l  |                     |          |             |
| Analytical Data  |  |                     |          |             |
| Detection: GC/FID  | Method Details:  |                     |          |             |
| Column: DB-5, 30 m, ID 0.25 mm   | Injector: 320° C   |                     |          |             |
| Inj.-Vol.: 2.00 µl   | Start Temperature: 120° C for 4 min  |                     |          |             |
| Flow: 1.0 ml/min   | End Temperature: 320° C for 3 min  |                     |          |             |
| Ret.-Time: 19.61 min.  | Gradient: 15° C/min  |                     |          |             |
| Identity check RT  |  |                     |          |             |
| Comment  | Property value was determined by gravimetric measurements and confirmed by peak area comparison. |                     |          |             |
| The uncertainty/tolerance of this standard is +/- 2.0 %, 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 28.08.2018

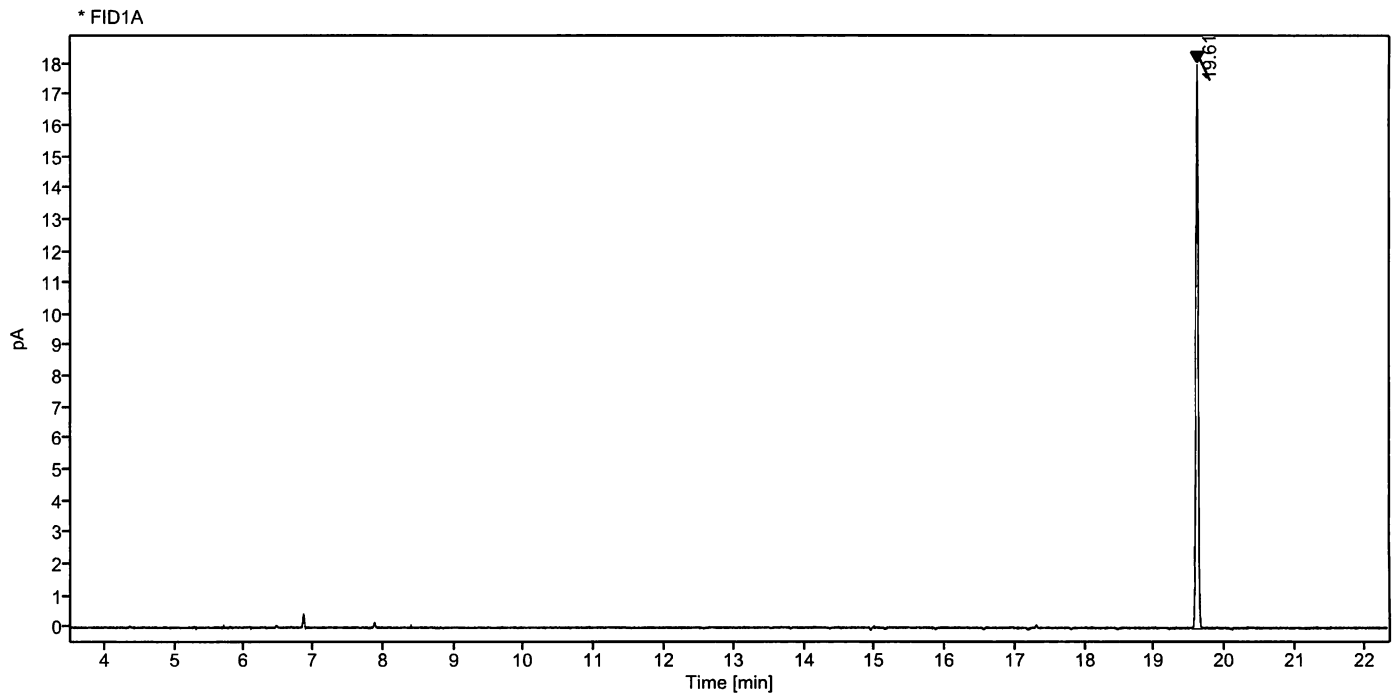
by D. Schmid

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: 20830000-24-r001.dx Instrument: FID 3  
Sample name: 752295CY Sequence Name: 2018KW29-0719-a  
Inj. volume [µl]: 2.0 Injection date: 7/20/2018 3:05:45 AM  
Acq. method: pahk\_2.amx Location: 23

Sample Description Indeno[1,2,3-c,d]pyrene



Signal: \* FID1A

| Nr. | RT [min] | Area [pA*s] | Height [pA] | Area%  | Width [min] | S/N   |
|-----|----------|-------------|-------------|--------|-------------|-------|
| 1   | 19.61    | 41.13472    | 18.04       | 100.00 | 0.147       | 533.3 |
|     | Sum      | 41.13       |             |        |             |       |

Schmid D.