



CERTIFIED REFERENCE MATERIAL BCR[®] – 079R

CERTIFICATE OF ANALYSIS

3-METHYLCHRYSENE		
	Mass fraction	
	Certified value ¹⁾ [g/g]	Uncertainty ²⁾ [g/g]
3-Methylchrysene	0.993	0.005
<p>1) Unweighted mean of accepted mean values, independently obtained by 10 laboratories. The value is traceable to the International System of Units (SI).</p> <p>2) The certified uncertainty is the expanded uncertainty estimated in accordance with the Guide to the Expression of Uncertainty in Measurement (GUM) with a coverage factor $k = 2$, corresponding to a level of confidence of about 95 %.</p>		

This certificate is valid for one year after purchase.

Sales date:

The minimum amount of sample to be used is 2.5 mg.

NOTE

This material has been certified by BCR (Community Bureau of Reference, the former reference materials programme of the European Commission). The certificate has been revised under the responsibility of IRMM.

Brussels, December 1980
Latest revision: June 2007

Signed: _____

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DESCRIPTION OF THE SAMPLE

The material is available in a brown glass bottle, containing 10 mg. The material corresponds to a 10 mg fraction of the original BCR-79 (100 mg units) repackaged under clean and inert gas conditions. The identity between BCR-079R and BCR-79 has been demonstrated using differential scanning calorimetry (DSC).

ANALYTICAL METHOD USED FOR CERTIFICATION

- Gas-Liquid Chromatography (GLC)
- High Performance Liquid Chromatography (HPLC)
- Gas Chromatography-Mass Spectrometry (GC-MS)
- Direct Inlet Mass Spectrometry
- Differential Scanning Calorimetry (DSC)

PARTICIPANTS

- Biochimici PSN, Quarto Inferiore, Bologna (IT)
- Biochemisches Institut für Umweltkarzinogene, Ahrensburg (DE)
- BP Research Centre, Sunbury-on-Thames (GB)
- Bundesanstalt für Materialforschung und -prüfung, Berlin (DE)
- CNR, Istituto sull'Inquinamento Atmosferico, Roma (IT)
- European Commission, Joint Research Centre, Petten (NL)
- European Commission, Joint Research Centre, Cetis, Ispra (IT)
- Fondation Curie – Institut du Radium, Paris (FR)
- Fysisch-Chemisch Instituut TNO, Zeist (NL)
- Istituto Superiore di Sanità, Roma (IT)
- Stichting Energieonderzoek Centrum Nederland, Petten (NL)

SAFETY INFORMATION

Cancer suspect agent. The material must be handled with great care, especially avoiding skin contamination, ingestion or inhalation. Do not discharge the waste into the drain.

INSTRUCTIONS FOR USE

The material is mainly intended for calibration purposes. Solutions of the PAH reference material should be freshly prepared and should be protected from extended exposure to light and oxygen. Discard solutions after use.

STORAGE

The material should be shielded from sunlight and be stored at 4 °C in the darkness to prevent photo-oxidation reactions.

However, the European Commission cannot be held responsible for changes that happen during storage of the material at the customer's premises, especially of opened samples.

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NOTE

A technical report on the production of BCR-079R is available on the internet (<http://www.irmm.jrc.be>). A paper copy can be obtained from IRMM on request.