



JOINT RESEARCH CENTRE
Directorate F – Health, Consumers and Reference Materials

CERTIFICATE OF ANALYSIS

ERM[®]-EF004

DIESEL (B7)		
	Certified value ³⁾ [°C]	Uncertainty ⁴⁾ [°C]
Cold filter plugging point (CFPP) ¹⁾	-27.9	2.7
Cloud point (CP) ²⁾	-6.8	0.4

1) As defined by EN 116:2015 or ASTM D6371-05:2010.
2) As defined by ISO 3015:1992 (EN 23015:1994) or ASTM D2500-09:2011.
3) Certified values are values that fulfil the highest standards of accuracy. The given values represent the unweighted mean value of the means of accepted sets of data, each set being obtained in a different laboratory using one of the above mentioned methods for determination. The certified values and their uncertainties are traceable to the International System of Units (SI).
4) The uncertainty of the certified value is the expanded uncertainty with a coverage factor $k = 2$ corresponding to a level of confidence of about 95 % estimated in accordance with ISO/IEC Guide 98-3, Guide to the Expression of Uncertainty in Measurement (GUM:1995), ISO, 2008.

This certificate is valid for one year after purchase.

Sales date:

The minimum sample intake is defined by the required sample volume stipulated in the respective standard methods, i.e. 50 mL.

Geel, February 2018

Signed: 

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DESCRIPTION OF THE MATERIAL

ERM-EF004 is prepared from a typical commercial automotive diesel fuel containing a volume fraction of approximately 7 % biodiesel that is based on rapeseed oil fatty acid methyl ester with the addition of 1 g/kg antioxidant (butylhydroxytoluene), so-called 'diesel (B7)'. Each unit of reference material consists of a set of two amber glass ampoules, each containing 27 mL of diesel (B7)

ANALYTICAL METHODS USED FOR CERTIFICATION

Cold filter plugging point: EN 116:2015 or ASTM D6371-05:2010.

Cloud point: to ISO 3015:1992 (EN 23015:1994) or ASTM D2500-09:2011.

PARTICIPANTS

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SAFETY INFORMATION

The usual hazard and precautionary phrases for diesel apply.



H304 - May be fatal if swallowed and enters airways.



H351 - Suspected of causing cancer.



P280 - Wear protective gloves/protective clothing/eye protection/face protection.

P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

P308+P313 - IF exposed or concerned: Get medical advice/attention.

INSTRUCTIONS FOR USE AND INTENDED USE

The contents of the two ampoules shall be pooled to obtain one sample of 50 mL. No further sample treatment is necessary.

The main purpose of these materials is to assess method performance, i.e. for checking accuracy of analytical results/calibration. As any reference material, they can be used for establishing control charts or validation studies.

STORAGE

The materials should be stored at (18 ± 5) °C in the dark.

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.

LEGAL NOTICE

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NOTE

A detailed certification report is available at <https://crm.jrc.ec.europa.eu/>.

A paper copy is obtainable from the Joint Research Centre, Directorate F – Health, Consumers and Reference Materials on request.



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