

Diesel (B7)

Art. ID	ERM-EF003
Unit	27 mL
Deliverydetails	ADR Excepted Quantity (EQ) / AIR Excepted Quantity (EQ) UN1202 III E2

Description

Latest revision: November 2019 / ERM-EF003 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)'. ERM-EF003 is filled in amber glass ampoules and each unit contains 27 mL of diesel (B7) ///Analytical methods used for certification Fatty acid methyl ester content: EN 14078:2014 (Infrared spectrometry method): Mono-aromatic hydrocarbon content: EN 12916:2016 (High performance liquid chromatography method with refractive index detection) / Di-aromatic hydrocarbon content: EN 12916:2016 (High performance liquid chromatography method with refractive index detection) / Tri+-aromatic hydrocarbon content: EN 12916:2016 (High performance liquid chromatography method with refractive index detection) / Polycyclic aromatic hydrocarbon content: EN 12916:2016 (High performance liquid chromatography method with refractive index detection) / Total aromatic hydrocarbon content: EN 12916:2016 (High performance liquid chromatography method with refractive index detection) / Density (at 15.0 °C): EN ISO 12185:1996 (Oscillating U-tube method) / Kinematic viscosity (at 40.0 °C): EN ISO 3104:1996 / Lubricity: EN 12156-1:2016 (High-frequency reciprocatingrig (HFRR)) / Water content: 12937:2000 (Coulometric Karl Fischer titration method) / Sulfur content:20846:2011 (Ultraviolet fluorescence method) / Oxidation stability: 15751:2014 (Accelerated oxidation method) /

Text/Information	Analyte/Parameter	CAS number	Concentration/Value	Unit	Method	Source
Certified value	Fatty acid methyl ester content		6,88 ± 0,17	% (v/v)	EN 14078:2014	
Certified value	Mono-aromatic hydrocarbon content		18,8 ± 0,7	% (m/m)	EN 12916:2016	
Certified value	Di-aromatic hydrocarbon content		1,84 ± 0,19	% (m/m)	EN 12916:2016	
Certified value	Polycyclic aromatic hydrocarbon content		2,01 ± 0,25	% (m/m)	EN 12916:2016	
Certified value	Total aromatic hydrocarbon content		20,8 ± 0,9	% (m/m)	EN 12916:2016	
Certified value	Density (at 15 °C)		837,23 ± 0,07	kg/m ³	EN ISO 12185:1996	
Certified value	Kinematic viscosity (at 40 °C)		2,892 ± 0,012	mm ² /s	EN ISO 3104:1996	
Certified value	Lubricity		220 ± 60	µm	EN 12156-1:2016	
Indicative value	Tri+-aromatic hydrocarbon content		0,17 ± 0,11	% (m/m)	EN 12916:2016	
Indicative value	Water content		0,0064 ± 0,0029	% (m/m)	EN 12937:2000	

Indicative value	Sulfur content	7,5 ± 1,6	mg/kg	ISO 20846: 2011
Additional material information	Oxidation stability at 100 °C	52	h	EN 15751:2 014