



MP Biodiesel S.A.
Route de l'Industrie 86
1564 Domdidier
SWITZERLAND

Your reference : Mathey
Your order no. : Letter
Date of order : 18.03.2021
Sample Receipt : 23.03.2021
Sampling : Customer
Start of test period : 23.03.2021
End of test period : 26.03.2021
Report date : 26.03.2021
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Report No. : 2902093-1

Sample : IT01-210318
Appearance : Color yellowish, clear, no visible impurities and water
Container : PE/PP bottle 1000 ml
ASG-ID : 2902093_001

Seal No. : -

Parameter	Method	Result	DIN EN 14214 :2014		Unit
			min.	max.	
Ester content	DIN EN 14103 :2015	98,6	96,5	-	% (m/m)
Density [15 °C]	DIN EN ISO 12185 :1997	883,0	860	900	kg/m ³
Kin. viscosity [40 °C]	DIN EN ISO 3104 :2021	4,443	3,50	5,00	mm ² /s
Flash point	DIN EN ISO 2719 :2016	150,0	101	-	°C
CFPP	DIN EN 116 :2018	-21	-	*	°C
Sulfur content	DIN EN ISO 20884 :2019	<5 [4,1]	-	10	mg/kg
Cetane Number (ICN)	DIN EN 17155 :2018 (a)	51,3	51,0	-	-
Sulfated ash [775 °C]	ISO 3987 :2010	<0,01	-	0,02	% (m/m)
Water content	DIN EN ISO 12937 :2002	220	-	500	mg/kg
Total contamination	DIN EN 12662 :1998	6	-	24	mg/kg
Copper strip corrosion	DIN EN ISO 2160 :1999	1	-	1	Corr.°
Oxidation stability	DIN EN 14112 :2016	10,9	8,0	-	h
Acid value	DIN EN 14104 :2003	0,31	-	0,50	mg KOH/g
Iodine value	DIN EN 16300 :2012	108,6	-	120	g Iodine/100g
Linolenic acid ME content	DIN EN 14103 :2015	7,8	-	12,0	% (m/m)
Polyunsaturated Methyl Esters	DIN EN 15779 :2013	<0,60	-	1,00	% (m/m)
Methanol content	DIN EN 14110 :2019	0,05	-	0,20	% (m/m)
Free glycerol content	DIN EN 14105 :2011	0,008	-	0,02	% (m/m)
Monoglyceride content		0,52	-	0,70	% (m/m)
Diglyceride content		0,13	-	0,20	% (m/m)
Triglyceride content		0,04	-	0,20	% (m/m)
Total glycerol content		0,166	-	0,25	% (m/m)
Phosphorous content	DIN EN 14107 :2003	<4 (<0,5)	-	4,0	mg/kg
Alkali content (Na+K)	DIN EN 14538 :2006	<1	-	5,0	mg/kg
Metal Content II (Ca+Mg)		<1	-	5,0	mg/kg
Cloud point	DIN EN 23015 :1994	-4	-	*	°C

*acc. national specifications

Jürgen Bernath (Technical manager)

(a) This method is not part of the accreditation.

This report is related only to the samples stated above and may not be reproduced except in full, without approval of the testing laboratory. Storage of the samples: 4 weeks from report date

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