

3 Petroleum, Food & Biodiesel Standards

3.9 Food & Biodiesel Standards

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1,2,4-Butanetriol standard solution

CL40.0272

Standard for GC ASTM Method D-6584 Solution contains 1000 µg/ml in Pyridine

Mol.Weight 79.10 g/mol	UN 1282	1,2,4-Butanetriol
Density 0.98 g/ml	ADR 3,II	
EINECS -	IATA 3,II	
HS Nr 38220000	IMDG 3,II	
HNrs H225-H302 + H312 + H332		
PNrs P210-P233-P302 + P352		

DANGER.



<u>Art. Nr.</u>	<u>Pack</u>	<u>Pack Type</u>
CL40.0272.0005	5 ml	AMP

1,3-Diolein standard solution

CL41.0450

Standard for GC ASTM Method D-6584 Solution contains 5000 µg/ml in Pyridine

Mol.Weight 79.10 g/mol	UN 1282	1,3-Diolein
Density 0.98 g/ml	ADR 3,II	
EINECS -	IATA 3,II	
HS Nr 38220000	IMDG 3,II	
HNrs H225-H302 + H312 + H332		
PNrs P210-P233-P302 + P352		

DANGER.



<u>Art. Nr.</u>	<u>Pack</u>	<u>Pack Type</u>
CL41.0450.0002	2 ml	AMP

EN 14105 Mix 1 (6C) standard solution

NEW CL40.13768

Standard for GC ASTM Method D-6584, EN 14105 Solution contains stated concentration in Pyridine

Mol.Weight 79.10 g/mol	UN 1282	Glycerin (5 µg/ml)
Density 0.98 g/ml	ADR 3,II	Monoolein (250 µg/ml)
EINECS -	IATA 3,II	1,3-Diolein (50 µg/ml)
HS Nr 38220000	IMDG 3,II	Triolein (50 µg/ml)
HNrs H225-H302 + H312 + H332		
PNrs P210-P233-P302 + P352		
		1,2,4-Butanetriol (80 µg/ml)
		Tricaprin (800 µg/ml)

DANGER.



<u>Art. Nr.</u>	<u>Pack</u>	<u>Pack Type</u>
CL40.13768.0001	1 ml	AMP

EN 14105 Mix 2 (6C) standard solution

NEW CL40.13769

Standard for GC ASTM Method D-6584, EN 14105 Solution contains stated concentration in Pyridine

Mol.Weight 79.10 g/mol	UN 1282	Glycerin (20 µg/ml)
Density 0.98 g/ml	ADR 3,II	Monoolein (600 µg/ml)
EINECS -	IATA 3,II	1,3-Diolein (200 µg/ml)
HS Nr 38220000	IMDG 3,II	Triolein (150 µg/ml)
HNrs H225-H302 + H312 + H332		
PNrs P210-P233-P302 + P352		
		1,2,4-Butanetriol (80 µg/ml)
		Tricaprin (800 µg/ml)

DANGER.



<u>Art. Nr.</u>	<u>Pack</u>	<u>Pack Type</u>
CL40.13769.0001	1 ml	AMP

ASTM D-6584

Determination of Total Monoglycerides, Total Diglycerides, Total Triglycerides, and Free and

EN 14105 Mix 3 (6C) standard solution

NEW CL40.13770

Standard for GC ASTM Method D-6584, EN 14105

Solution contains stated concentration in Pyridine

Mol.Weight 79.10 g/mol	UN 1282	Glycerin (35 µg/ml)
Density 0.98 g/ml	ADR 3,II	Monoolein (950 µg/ml)
EINECS -	IATA 3,II	1,3-Diolein (350 µg/ml)
HS Nr 38220000	IMDG 3,II	Triolein (300 µg/ml)
HNrs H225-H302 + H312 + H332		1,2,4-Butanetriol (80 µg/ml)
PNrs P210-P233-P302 + P352		Tricaprin (800 µg/ml)

DANGER.



Art. Nr.	Pack	Pack Type
CL40.13770.0001	1 ml	AMP

EN 14105 Mix 4 (6C) standard solution

NEW CL40.13771

Standard for GC ASTM Method D-6584, EN 14105

Solution contains stated concentration in Pyridine

Mol.Weight 79.10 g/mol	UN 1282	Glycerin (50 µg/ml)
Density 0.98 g/ml	ADR 3,II	Monoolein (1250 µg/ml)
EINECS -	IATA 3,II	1,3-Diolein (500 µg/ml)
HS Nr 38220000	IMDG 3,II	Triolein (400 µg/ml)
HNrs H225-H302 + H312 + H332		1,2,4-Butanetriol (80 µg/ml)
PNrs P210-P233-P302 + P352		Tricaprin (800 µg/ml)

DANGER.



Art. Nr.	Pack	Pack Type
CL40.13771.0001	1 ml	AMP

EN 14105 Mix 5 (3C) standard solution

NEW CL40.13281

Standard for GC ASTM Method D-6584, EN 14105

Solution contains 10000 µg/ml in Pyridine

Mol.Weight 79.10 g/mol	UN 1282	Monoolein
Density 0.98 g/ml	ADR 3,II	Monopalmitin
EINECS -	IATA 3,II	Monostearin
HS Nr 38220000	IMDG 3,II	
HNrs H225-H302 + H312 + H332		
PNrs P210-P233-P302 + P352		

DANGER.



Art. Nr.	Pack	Pack Type
CL40.13281.0001	1 ml	AMP

Glycerin standard solution

CL40.0703

Standard for GC ASTM Method D-6584

Solution contains 500 µg/ml in Pyridine

Mol.Weight 79.10 g/mol	UN 1282	Glycerin
Density 0.98 g/ml	ADR 3,II	
EINECS -	IATA 3,II	
HS Nr 38220000	IMDG 3,II	
HNrs H225-H302 + H312 + H332		
PNrs P210-P233-P302 + P352		

DANGER.



Art. Nr.	Pack	Pack Type
CL40.0703.0002	2 ml	AMP

ASTM D-6584

Determination of Total Monoglycerides, Total Diglycerides, Total Triglycerides, and Free and

Monoolein standard solution

CL40.1347

Standard for GC ASTM Method D-6584

Solution contains 5000 µg/ml in Pyridine - Keep at -20°C

Mol.Weight 79.10 g/mol **UN** 1282
Density 0.98 g/ml **ADR** 3,II
EINECS - **IATA** 3,II
HS Nr 38220000 **IMDG** 3,II
HNrs H225-H302 + H312 + H332
PNrs P210-P233-P302 + P352

Monolein

DANGER.



Art. Nr.	Pack	Pack Type
CL40.1347.0002	2 ml	AMP

Monopalmitin standard solution

CL40.1348

Standard for GC ASTM Method D-6584

Solution contains 5000 µg/ml in Pyridine

Mol.Weight 79.10 g/mol **UN** 1282
Density 0.98 g/ml **ADR** 3,II
EINECS - **IATA** 3,II
HS Nr 38220000 **IMDG** 3,II
HNrs H225-H302 + H312 + H332
PNrs P210-P233-P302 + P352

Monopalmitin

DANGER.



Art. Nr.	Pack	Pack Type
CL40.1348.0002	2 ml	AMP

Monostearin standard solution

NEW CL41.1342

Standard for GC EN 14105, ASTM D-6584

Solution contains 1% m/v in Pyridine

Mol.Weight 79.10 g/mol **UN** 1282
Density 0.98 g/ml **ADR** 3,II
EINECS - **IATA** 3,II
HS Nr 38220000 **IMDG** 3,II
HNrs H225-H302 + H312 + H332
PNrs P210-P233-P302 + P352

Monostearin

DANGER.



Art. Nr.	Pack	Pack Type
CL41.1342.0002	2 ml	AMP

Tricaprin standard solution

CL40.2074

Standard for GC ASTM Method D-6584

Solution contains 8.000 µg/ml in Pyridine

Mol.Weight 79.10 g/mol **UN** 1282
Density 0.98 g/ml **ADR** 3,II
EINECS - **IATA** 3,II
HS Nr 38220000 **IMDG** 3,II
HNrs H225-H302 + H312 + H332
PNrs P210-P233-P302 + P352

Tricaprin

DANGER.



Art. Nr.	Pack	Pack Type
CL40.2074.0005	5 ml	AMP

Chem-Lab's certified "Custom Made Standards" will save you time and money.

ASTM D-6584

Determination of Total Monoglycerides, Total Diglycerides, Total Triglycerides, and Free and

Triolein standard solution

CL40.2073

Standard for GC ASTM Method D-6584

Solution contains 5000 µg/ml in Pyridine - Keep at -20°C

Mol.Weight 79.10 g/mol	UN 1282
Density 0.98 g/ml	ADR 3,II
EINECS -	IATA 3,II
HS Nr 38220000	IMDG 3,II
HNrs H225-H302 + H312 + H332	
PNrs P210-P233-P302 + P352	

Triolein

DANGER.



<u>Art. Nr.</u>	<u>Pack</u>	<u>Pack Type</u>
CL40.2073.0002	2 ml	AMP

ASTM D-6584 Mix (6C) standard solution

NEW CL40.13766

Standard for GC ASTM Method D-6584

Solution contains stated concentration in Pyridine

Mol.Weight 79.10 g/mol	UN 1282
Density 0.98 g/ml	ADR 3,II
EINECS -	IATA 3,II
HS Nr 38220000	IMDG 3,II
HNrs H225-H302 + H312 + H332	
PNrs P210-P233-P302 + P352	

Glycerin (500 µg/ml)
 Monoolein (5.000 µg/ml)
 1,3-Diolein (5.000 µg/ml)
 Triolein (5.000 µg/ml)
 1,2,4-Butanetriol (1.000 µg/ml)
 Tricaprin (8.000 µg/ml)

DANGER.



<u>Art. Nr.</u>	<u>Pack</u>	<u>Pack Type</u>
CL40.13766.0005	5 ml	AMP

ASTM D-6584 Mix 4 (4C) standard solution

NEW CL40.13784

Standard for GC ASTM Method D-6584

Solution contains stated concentration in Pyridine - Keep at 2-8°C

Mol.Weight 79.10 g/mol	UN 1282
Density 0.98 g/ml	ADR 3,II
EINECS -	IATA 3,II
HS Nr 38220000	IMDG 3,II
HNrs H225-H302 + H312 + H332	
PNrs P210-P233-P302 + P352	

Glycerin (35 µg/ml)
 Monoolein (750 µg/ml)
 1,3-Diolein (350 µg/ml)
 Triolein (350 µg/ml)

DANGER.



<u>Art. Nr.</u>	<u>Pack</u>	<u>Pack Type</u>
CL40.13784.0001	1 ml	AMP

ASTM D-6584 Mix 1 (4C) standard solution

NEW CL40.13781

Standard for GC ASTM Method D-6584

Solution contains stated concentration in Pyridine - Keep at 2-8°C

Mol.Weight 79.10 g/mol	UN 1282
Density 0.98 g/ml	ADR 3,II
EINECS -	IATA 3,II
HS Nr 38220000	IMDG 3,II
HNrs H225-H302 + H312 + H332	
PNrs P210-P233-P302 + P352	

Glycerin (5 µg/ml)
 Monoolein (100 µg/ml)
 1,3-Diolein (50 µg/ml)
 Triolein (50 µg/ml)

DANGER.



<u>Art. Nr.</u>	<u>Pack</u>	<u>Pack Type</u>
CL40.13781.0001	1 ml	AMP

ASTM D-6584

Determination of Total Monoglycerides, Total Diglycerides, Total Triglycerides, and Free and

ASTM D-6584 Mix 2 (4C) standard solution

NEW CL40.13782

Standard for GC ASTM Method D-6584

Solution contains stated concentration in Pyridine - Keep at 2-8°C

Mol.Weight 79.10 g/mol	UN 1282	Glycerin (15 µg/ml)
Density 0.98 g/ml	ADR 3,II	Monoolein (250 µg/ml)
EINECS -	IATA 3,II	1,3-Diolein (100 µg/ml)
HS Nr 38220000	IMDG 3,II	Triolein (100 µg/ml)
HNrs H225-H302 + H312 + H332		
PNrs P210-P233-P302 + P352		

DANGER.



Art. Nr.	Pack	Pack Type
CL40.13782.0001	1 ml	AMP

ASTM D-6584 Mix 5 (4C) standard solution

NEW CL40.13785

Standard for GC ASTM Method D-6584

Solution contains stated concentration in Pyridine - Keep at 2-8°C

Mol.Weight 79.10 g/mol	UN 1282	Glycerin (50 µg/ml)
Density 0.98 g/ml	ADR 3,II	Monoolein (1000 µg/ml)
EINECS -	IATA 3,II	1,3-Diolein (500 µg/ml)
HS Nr 38220000	IMDG 3,II	Triolein (500 µg/ml)
HNrs H225-H302 + H312 + H332		
PNrs P210-P233-P302 + P352		

DANGER.



Art. Nr.	Pack	Pack Type
CL40.13785.0001	1 ml	AMP

ASTM D-6584 Mix 3 (4C) standard solution

NEW CL40.13783

Standard for GC ASTM Method D-6584

Solution contains stated concentration in Pyridine - Keep at 2-8°C

Mol.Weight 79.10 g/mol	UN 1282	Glycerin (25 µg/ml)
Density 0.98 g/ml	ADR 3,II	Monoolein (500 µg/ml)
EINECS -	IATA 3,II	1,3-Diolein (200 µg/ml)
HS Nr 38220000	IMDG 3,II	Triolein (200 µg/ml)
HNrs H225-H302 + H312 + H332		
PNrs P210-P233-P302 + P352		

DANGER.



Art. Nr.	Pack	Pack Type
CL40.13783.0001	1 ml	AMP

ASTM D-6751

Standard Specification for Biodiesel Fuel Blend Stock (B100) for Middle Distillate Fuels

Multi Element (5E) standard oil solution

NEW CL11.13556

Standard for ASTM D-6751, UOP 391, EN 14108, EN 14109, EN 14538

Contains 100 µg/g in Biodiesel D100

Density 0.85 g/ml	Calcium (Ca)	100 µg/g
HS Nr 38220000	Potassium (K)	100 µg/g
HNrs H304	Magnesium (Mg)	100 µg/g
PNrs P301 + P310-P331	Sodium (Na)	100 µg/g
	Phosphorus (P)	100 µg/g

DANGER.



Art. Nr.	Pack	Pack Type
CL11.13556.0100	100 ml	GVB


ASTM D-6751

Standard Specification for Biodiesel Fuel Blend Stock (B100) for Middle Distillate Fuels

Multi Element (5E) standard oil solution

NEW CL11.13557


Standard for ASTM D-6751, UOP 391, EN 14108, EN 14109, EN 14538 Contains 500 µg/g in Biodiesel D100

Density 0.85 g/ml	Calcium (Ca)	500 µg/g		Art. Nr. CL11.13557.0100	Pack 100 ml	Pack Type GVB
HS Nr 38220000	Potassium (K)	500 µg/g				
HNrs H304	Magnesium (Mg)	500 µg/g				
PNrs P301 + P310-P331	Sodium (Na)	500 µg/g				
DANGER. 	Phosphorus (P)	500 µg/g				

Sodium & Potassium (2E) standard oil solution

NEW CL11.13554

Standard for ASTM D-6751, UOP 391, EN 14108, EN 14109 Contains 100 µg/g in Biodiesel D100

Density 0.85 g/ml	Potassium (K)	100 µg/g		Art. Nr. CL11.13554.0100	Pack 100 g	Pack Type GVB
HS Nr 38220000	Sodium (Na)	100 µg/g				
HNrs H304						
PNrs P301 + P310-P331						
DANGER. 						

ASTM D-7328

Determination of Existent and Potential Inorganic Sulfate and Total Inorganic Chloride in Fuel

Multi Element IC Standard sol. (2E)

NEW CL01.39316

Standard for Biodiesel/Diesel analysis acc. ASTM D-7328 Contains 2 elements in H2O (Store cool !)

Density 1.00 g/ml	Chloride	: 3 mg/l	Art. Nr. CL01.39316.0100	Pack 100 ml	Pack Type PE
HS Nr 38220000	Sulfate	: 3 mg/l			

Multi Element IC Standard sol. (2E)

NEW CL01.39317

Standard for Biodiesel/Diesel analysis acc. ASTM D-7328 Contains 2 elements in H2O (Store cool !)

Density 1.00 g/ml	Chloride	: 5 mg/l	Art. Nr. CL01.39317.0100	Pack 100 ml	Pack Type PE
HS Nr 38220000	Sulfate	: 5 mg/l			

Multi Element IC Standard sol. (2E)

NEW CL01.39318

Standard for Biodiesel/Diesel analysis acc. ASTM D-7328 Contains 2 elements in H2O (Store cool !)

Density 1.00 g/ml	Chloride	: 10 mg/l	Art. Nr. CL01.39318.0100	Pack 100 ml	Pack Type PE
HS Nr 38220000	Sulfate	: 10 mg/l			

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EN14105

Determination of free and total glycerol and mono-, di-, triglyceride contents

EN 14105 Mix 1 (6C) standard solution

NEW CL40.13768

Standard for GC ASTM Method D-6584, EN 14105

Solution contains stated concentration in Pyridine

Mol.Weight 79.10 g/mol	UN 1282	Glycerin (5 µg/ml)
Density 0.98 g/ml	ADR 3,II	Monoolein (250 µg/ml)
EINECS -	IATA 3,II	1,3-Diolein (50 µg/ml)
HS Nr 38220000	IMDG 3,II	Triolein (50 µg/ml)
HNrs H225-H302 + H312 + H332		1,2,4-Butanetriol (80 µg/ml)
PNrs P210-P233-P302 + P352		Tricaprin (800 µg/ml)

DANGER.



<u>Art. Nr.</u>	<u>Pack</u>	<u>Pack Type</u>
CL40.13768.0001	1 ml	AMP

EN 14105 Mix 2 (6C) standard solution

NEW CL40.13769

Standard for GC ASTM Method D-6584, EN 14105

Solution contains stated concentration in Pyridine

Mol.Weight 79.10 g/mol	UN 1282	Glycerin (20 µg/ml)
Density 0.98 g/ml	ADR 3,II	Monoolein (600 µg/ml)
EINECS -	IATA 3,II	1,3-Diolein (200 µg/ml)
HS Nr 38220000	IMDG 3,II	Triolein (150 µg/ml)
HNrs H225-H302 + H312 + H332		1,2,4-Butanetriol (80 µg/ml)
PNrs P210-P233-P302 + P352		Tricaprin (800 µg/ml)

DANGER.



<u>Art. Nr.</u>	<u>Pack</u>	<u>Pack Type</u>
CL40.13769.0001	1 ml	AMP

EN 14105 Mix 3 (6C) standard solution

NEW CL40.13770

Standard for GC ASTM Method D-6584, EN 14105

Solution contains stated concentration in Pyridine

Mol.Weight 79.10 g/mol	UN 1282	Glycerin (35 µg/ml)
Density 0.98 g/ml	ADR 3,II	Monoolein (950 µg/ml)
EINECS -	IATA 3,II	1,3-Diolein (350 µg/ml)
HS Nr 38220000	IMDG 3,II	Triolein (300 µg/ml)
HNrs H225-H302 + H312 + H332		1,2,4-Butanetriol (80 µg/ml)
PNrs P210-P233-P302 + P352		Tricaprin (800 µg/ml)

DANGER.



<u>Art. Nr.</u>	<u>Pack</u>	<u>Pack Type</u>
CL40.13770.0001	1 ml	AMP

EN 14105 Mix 4 (6C) standard solution

NEW CL40.13771

Standard for GC ASTM Method D-6584, EN 14105

Solution contains stated concentration in Pyridine

Mol.Weight 79.10 g/mol	UN 1282	Glycerin (50 µg/ml)
Density 0.98 g/ml	ADR 3,II	Monoolein (1250 µg/ml)
EINECS -	IATA 3,II	1,3-Diolein (500 µg/ml)
HS Nr 38220000	IMDG 3,II	Triolein (400 µg/ml)
HNrs H225-H302 + H312 + H332		1,2,4-Butanetriol (80 µg/ml)
PNrs P210-P233-P302 + P352		Tricaprin (800 µg/ml)

DANGER.



<u>Art. Nr.</u>	<u>Pack</u>	<u>Pack Type</u>
CL40.13771.0001	1 ml	AMP

EN14105

Determination of free and total glycerol and mono-, di-, triglyceride contents

EN 14105 Mix 5 (3C) standard solution

NEW CL40.13281

Standard for GC ASTM Method D-6584, EN 14105 Solution contains 10000 µg/ml in Pyridine

Mol.Weight 79.10 g/mol	UN 1282	Monoolein
Density 0.98 g/ml	ADR 3,II	Monopalmitin
EINECS -	IATA 3,II	Monostearin
HS Nr 38220000	IMDG 3,II	
HNrs H225-H302 + H312 + H332		
PNrs P210-P233-P302 + P352		



<u>Art. Nr.</u>	<u>Pack</u>	<u>Pack Type</u>
CL40.13281.0001	1 ml	AMP

Monostearin standard solution

NEW CL41.1342

Standard for GC EN 14105, ASTM D-6584 Solution contains 1% m/v in Pyridine

Mol.Weight 79.10 g/mol	UN 1282	Monostearin
Density 0.98 g/ml	ADR 3,II	
EINECS -	IATA 3,II	
HS Nr 38220000	IMDG 3,II	
HNrs H225-H302 + H312 + H332		
PNrs P210-P233-P302 + P352		



<u>Art. Nr.</u>	<u>Pack</u>	<u>Pack Type</u>
CL41.1342.0002	2 ml	AMP

EN14108

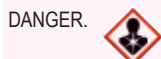
Determination of sodium content by atomic absorption spectrometry

Multi Element (5E) standard oil solution

NEW CL11.13556

Standard for ASTM D-6751, UOP 391, EN 14108, EN 14109, EN 14538 Contains 100 µg/g in Biodiesel D100

Density 0.85 g/ml	Calcium (Ca)	100 µg/g
HS Nr 38220000	Potassium (K)	100 µg/g
HNrs H304	Magnesium (Mg)	100 µg/g
PNrs P301 + P310-P331	Sodium (Na)	100 µg/g
	Phosphorus (P)	100 µg/g



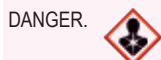
<u>Art. Nr.</u>	<u>Pack</u>	<u>Pack Type</u>
CL11.13556.0100	100 ml	GVB

Multi Element (5E) standard oil solution

NEW CL11.13557

Standard for ASTM D-6751, UOP 391, EN 14108, EN 14109, EN 14538 Contains 500 µg/g in Biodiesel D100

Density 0.85 g/ml	Calcium (Ca)	500 µg/g
HS Nr 38220000	Potassium (K)	500 µg/g
HNrs H304	Magnesium (Mg)	500 µg/g
PNrs P301 + P310-P331	Sodium (Na)	500 µg/g
	Phosphorus (P)	500 µg/g



<u>Art. Nr.</u>	<u>Pack</u>	<u>Pack Type</u>
CL11.13557.0100	100 ml	GVB




EN14108

Determination of sodium content by atomic absorption spectrometry

Sodium & Potassium (2E) standard oil solution

NEW CL11.13554

Standard for ASTM D-6751, UOP 391, EN 14108, EN 14109 Contains 100 µg/g in Biodiesel D100

Density 0.85 g/ml	<u>Potassium (K)</u>	100 µg/g	
HS Nr 38220000	<u>Sodium (Na)</u>	100 µg/g	
HNrs H304			
PNrs P301 + P310-P331			
DANGER. 			
	<u>Art. Nr.</u>	<u>Pack</u>	<u>Pack Type</u>
	CL11.13554.0100	100 g	GVB


EN14109

Determination of potassium content by atomic absorption spectrometry

Multi Element (5E) standard oil solution

NEW CL11.13556


Standard for ASTM D-6751, UOP 391, EN 14108, EN 14109, EN 14538 Contains 100 µg/g in Biodiesel D100

Density 0.85 g/ml	<u>Calcium (Ca)</u>	100 µg/g	
HS Nr 38220000	<u>Potassium (K)</u>	100 µg/g	
HNrs H304	<u>Magnesium (Mg)</u>	100 µg/g	
PNrs P301 + P310-P331	<u>Sodium (Na)</u>	100 µg/g	
DANGER. 	<u>Phosphorus (P)</u>	100 µg/g	
	<u>Art. Nr.</u>	<u>Pack</u>	<u>Pack Type</u>
	CL11.13556.0100	100 ml	GVB

Multi Element (5E) standard oil solution

NEW CL11.13557


Standard for ASTM D-6751, UOP 391, EN 14108, EN 14109, EN 14538 Contains 500 µg/g in Biodiesel D100

Density 0.85 g/ml	<u>Calcium (Ca)</u>	500 µg/g	
HS Nr 38220000	<u>Potassium (K)</u>	500 µg/g	
HNrs H304	<u>Magnesium (Mg)</u>	500 µg/g	
PNrs P301 + P310-P331	<u>Sodium (Na)</u>	500 µg/g	
DANGER. 	<u>Phosphorus (P)</u>	500 µg/g	
	<u>Art. Nr.</u>	<u>Pack</u>	<u>Pack Type</u>
	CL11.13557.0100	100 ml	GVB

Sodium & Potassium (2E) standard oil solution

NEW CL11.13554

Standard for ASTM D-6751, UOP 391, EN 14108, EN 14109 Contains 100 µg/g in Biodiesel D100

Density 0.85 g/ml	<u>Potassium (K)</u>	100 µg/g	
HS Nr 38220000	<u>Sodium (Na)</u>	100 µg/g	
HNrs H304			
PNrs P301 + P310-P331			
DANGER. 			
	<u>Art. Nr.</u>	<u>Pack</u>	<u>Pack Type</u>
	CL11.13554.0100	100 g	GVB

EN14110

Determination of methanol content

Methanol standard solution

CL40.1807

Method EN-14110 Solution contains 10000 µg/ml in Rapeseed oil

Density 0.91 g/ml	<u>Methanol (10000 µg/ml)</u>		
HS Nr 38220000			
	<u>Art. Nr.</u>	<u>Pack</u>	<u>Pack Type</u>
	CL40.1807.0002	2 ml	AMP

EN14110

Determination of methanol content

Methanol standard solution

NEW CL41.1356

Method EN-14110 Solution contains 5000 µg/g in H2O

Density	1.00 g/ml	Methanol	Art. Nr.	Pack	Pack Type
HS Nr	38220000		CL41.1356.0001	1 ml	AMP

Methanol standard solution

CL40.1806

Method EN-14110 Solution contains 4000 µg/ml in Rapeseed oil

Density	0.91 g/ml	Methanol (4 000 µg/ml)	Art. Nr.	Pack	Pack Type
HS Nr	38220000		CL40.1806.0002	2 ml	AMP

Methanol standard solution

NEW CL41.1355

Method EN-14110 Solution contains 2500 µg/g in H2O

Density	1.00 g/ml	Methanol	Art. Nr.	Pack	Pack Type
HS Nr	38220000		CL41.1355.0001	1 ml	AMP

Methanol standard solution

CL40.1805

Method EN-14110 Solution contains 2000 µg/ml in Rapeseed oil

Density	0.91 g/ml	Methanol (2.000 µg/ml)	Art. Nr.	Pack	Pack Type
HS Nr	38220000		CL40.1805.0002	2 ml	AMP

Methanol standard solution

NEW CL41.1354

Method EN-14110 Solution contains 1000 µg/g in H2O

Density	1.00 g/ml	Methanol	Art. Nr.	Pack	Pack Type
HS Nr	38220000		CL41.1354.0001	1 ml	AMP

Methanol standard solution

NEW CL40.1804

Method EN-14110 Solution contains 500 µg/ml in Rapeseed oil

Density	0.91 g/ml	Methanol (500 µg/ml)	Art. Nr.	Pack	Pack Type
HS Nr	38220000		CL40.1804.0002	2 ml	AMP

Methanol standard solution

NEW CL41.1353

Method EN-14110 Solution contains 500 µg/g in H2O

Density	1.00 g/ml	Methanol	Art. Nr.	Pack	Pack Type
HS Nr	38220000		CL41.1353.0001	1 ml	AMP

Methanol standard solution

NEW CL41.1352

Method EN-14110 Solution contains 100 µg/g in H2O

Density	1.00 g/ml	Methanol	Art. Nr.	Pack	Pack Type
HS Nr	38220000		CL41.1352.0001	1 ml	AMP

EN14110 Determination of methanol content

Methanol standard solution

NEW CL40.1803

Method EN-14110 Solution contains 80 µg/ml in Rapeseed oil

Density 0.91 g/ml	Methanol (80 µg/ml)		
HS Nr 38220000		Art. Nr.	Pack
		CL40.1803.0002	2 ml
		Pack Type	AMP

Methanol standard solution

CL40.1802

Method EN-14110 Solution contains 10 µg/ml in Rapeseed oil

Density 0.91 g/ml	Methanol (10 µg/ml)		
HS Nr 38220000		Art. Nr.	Pack
		CL40.1802.0002	2 ml
		Pack Type	AMP


EN14538

Determination of Ca, K, Mg and Na content by optical emission spectral analysis with

Multi Element (5E) standard oil solution

NEW CL11.13556


Standard for ASTM D-6751, UOP 391, EN 14108, EN 14109, EN 14538 Contains 100 µg/g in Biodiesel D100

Density 0.85 g/ml	Calcium (Ca)	100 µg/g	
HS Nr 38220000	Potassium (K)	100 µg/g	
HNrs H304	Magnesium (Mg)	100 µg/g	
PNrs P301 + P310-P331	Sodium (Na)	100 µg/g	
DANGER. 	Phosphorus (P)	100 µg/g	
		Art. Nr.	Pack
		CL11.13556.0100	100 ml
		Pack Type	GVB

Multi Element (5E) standard oil solution

NEW CL11.13557


Standard for ASTM D-6751, UOP 391, EN 14108, EN 14109, EN 14538 Contains 500 µg/g in Biodiesel D100

Density 0.85 g/ml	Calcium (Ca)	500 µg/g	
HS Nr 38220000	Potassium (K)	500 µg/g	
HNrs H304	Magnesium (Mg)	500 µg/g	
PNrs P301 + P310-P331	Sodium (Na)	500 µg/g	
DANGER. 	Phosphorus (P)	500 µg/g	
		Art. Nr.	Pack
		CL11.13557.0100	100 ml
		Pack Type	GVB

Calcium & Magnesium (2E) standard oil solution

NEW CL11.13555

Standard for EN 14538 Contains 100 µg/g in Biodiesel D100

Density 0.85 g/ml	Calcium (Ca)	100 µg/g	
HS Nr 38220000	Magnesium (Mg)	100 µg/g	
HNrs H304			
PNrs P301 + P310-P331			
DANGER. 			
		Art. Nr.	Pack
		CL11.13555.0100	100 g
		Pack Type	GVB

EN15721

Determination of higher alcohols, methanol and other impurities (GC)

3-Pentanol standard solution

NEW CL42.1614

Internal Standard Solution A for EN 15721

Solution contains 1% w/w in Ethanol

Mol.Weight 46.07 g/mol	UN 1170
Density 0.912 g/ml	ADR 3,II
HS Nr 38220000	IATA 3,II
	IMDG 3,II

Pentan-3-ol

HNrs H225

PNrs P210

DANGER.



Art. Nr.	Pack	Pack Type
CL42.1614.0001	1 ml	AMP

Ethanol Impurities Mix (10C) standard solution

NEW CL40.13463

Solution A for EN 15721

Solution contains stated concentrations in Ethanol

Mol.Weight 46.07 g/mol	UN 1170
Density 0.912 g/ml	ADR 3,II
HS Nr 38220000	IATA 3,II
	IMDG 3,II

Methanol (1 w/w %)

Acetal (1 w/w %)

Acetaldehyde (1 w/w %)

3-Methyl-1-butanol (1 w/w %)

2-Methyl-1-butanol (1 w/w %)

2-Methyl-1-propanol (1 w/w %)

2-Butanol (1 w/w %)

1-Butanol (1 w/w %)

1-Propanol (1 w/w %)

Ethyl acetate (1 w/w %)

HNrs H225

PNrs P210

DANGER.



Art. Nr.	Pack	Pack Type
CL40.13463.0001	1 ml	AMP




FAME Mix (37C) standard solution

CL40.13093

Quantification of FAME in vegetal oils

Solution contains stated concentration in Dichloromethane - Keep at -20°C

Density 1.32 g/ml	UN 1593	cis-13,16-Docosadienoic acid methyl ester (200 µg/ml)	Methyl linoleate (200 µg/ml)
HS Nr 38220000	ADR 6.1,III	cis-4,7,10,13,16,19-Docosahexaenoic acid methyl ester (200 µg/ml)	Methyl linolenate (200 µg/ml)
	IATA 6.1,III	cis-11,14-Eicosadienoic acid methyl ester (200 µg/ml)	Methyl myristate (400 µg/ml)
	IMDG 6.1,III	cis-5,8,11,14,17-Eicosapentaenoic acid methyl ester (200 µg/ml)	Methyl myristoleate (200 µg/ml)
HNrs H351		cis-8,11-14-Eicosatrienoic acid methyl ester (200 µg/ml)	Methyl oleate (400 µg/ml)
PNrs P281-P308 + P313		cis-11,14,17-Eicosatrienoic acid methyl ester (200 µg/ml)	Methyl octanoate (400 µg/ml)
WARNING. 		cis-11-Eicosenoic acid methyl ester (200 µg/ml)	Methyl palmitate (600 µg/ml)
		Methyl cis-10-heptadecenoate (200 µg/ml)	Methyl palmitoleate (200 µg/ml)
		Methyl hexanoate (400 µg/ml)	Methyl pentadecanoate (200 µg/ml)
		Methyl γ-linolenate (200 µg/ml)	Methyl cis-10-pentadecenoate (200 µg/ml)
		Methyl arachidate (400 µg/ml)	Methyl stearate (400 µg/ml)
		Methyl arachidonate (200 µg/ml)	Methyl tricosanoate (200 µg/ml)
		Methyl behenate (400 µg/ml)	Methyl tetracosanoate (400 µg/ml)
		Methyl butyrate (400 µg/ml)	Methyl tridecanoate (200 µg/ml)
		Methyl decanoate (400 µg/ml)	Methyl undecanoate (200 µg/ml)
		Methyl dodecanoate (400 µg/ml)	Methyl cis-15-tetracosenoate (200 µg/ml)
		Methyl elaidate (200 µg/ml)	
		Methyl erucate (200 µg/ml)	
		Methyl heneicosanoate (200 µg/ml)	
		Methyl heptadecanoate (200 µg/ml)	Art. Nr.
		Methyl linoleate (200 µg/ml)	Pack
			Pack Type
			CL40.13093.0001
			1 ml
			AMP

FAME Mix III (37C)

NEW CL40.13263

Quantification of FAME in vegetal oils

Solution contains stated concentration

Density 0.91 g/ml	cis-13,16-Docosadienoic acid methyl ester (2%)	Methyl linoleate (2%)
HS Nr 38220000	cis-4,7,10,13,16,19-Docosahexaenoic acid methyl ester (2%)	Methyl linolenate (2%)
	cis-11,14-Eicosadienoic acid methyl ester (2%)	Methyl myristate (4%)
	cis-5,8,11,14,17-Eicosapentaenoic acid methyl ester (2%)	Methyl myristoleate (2%)
	cis-8,11-14-Eicosatrienoic acid methyl ester (2%)	Methyl oleate (4%)
	cis-11,14,17-Eicosatrienoic acid methyl ester (2%)	Methyl octanoate (4%)
	cis-11-Eicosenoic acid methyl ester (2%)	Methyl palmitate (6%)
	Methyl cis-10-heptadecenoate (2%)	Methyl palmitoleate (2%)
	Methyl hexanoate (4%)	Methyl pentadecanoate (2%)
	Methyl γ-linolenate (2%)	Methyl cis-10-pentadecenoate (2%)
	Methyl arachidate (4%)	Methyl stearate (4%)
	Methyl arachidonate (2%)	Methyl tricosanoate (2%)
	Methyl behenate (4%)	Methyl tetracosanoate (4%)
	Methyl butyrate (4%)	Methyl tridecanoate (2%)
	Methyl decanoate (4%)	Methyl undecanoate (2%)
	Methyl dodecanoate (4%)	Methyl cis-15-tetracosenoate (2%)
	Methyl elaidate (2%)	
	Methyl erucate (2%)	
	Methyl heneicosanoate (2%)	
	Methyl heptadecanoate (2%)	Art. Nr.
	Methyl linoleate (2%)	Pack
		Pack Type
		CL40.13263.0100
		100 mg
		AMP

FAME Mix C8-C24 (14C)

NEW CL40.39082

Quantification of FAME in vegetal oils

Solution contains stated concentration

Density 0.91 g/ml HS Nr 38220000	C08:0 Caprylic acid methyl ester (8%)	C18:3 Linolenic acid methyl ester (5%)	
	C10:0 Methyl decanoate (8%)	C20:0 Arachidic acid methyl ester (8%)	
	C12:0 Lauric acid methyl ester (8%)	C22:0 Behenic acid methyl ester (8%)	
	C14:0 Methyl myristate (8%)	C22:1 Erucic acid methyl ester (5%)	
	C16:0 Methyl palmitate (11%)	C24:0 Lignoceric acid methyl ester (8%)	
	C16:1 Methyl cis-9-hexadecenoate (5%)		
	C18:0 Methyl stearate (8%)		
	C18:1 Methyl oleate (5%)		
	C18:2 Linoleic acid methyl ester (5%)		
	Art. Nr.	Pack	Pack Type
	CL40.39082.0100	100 mg	AMP

Low Erucic Rapeseed FAME Mix (11C)

CL40.13762

Quantification of FAME in vegetal oils

Solution contains stated concentration - Keep at -20°C

Density 0.91 g/ml HS Nr 38220000	C14:0 Methyl myristate (1%)	C20:1 Methyl eicosenoate (1%)		
	C16:0 Methyl palmitate (4%)	C22:0 Methyl behenate (3%)		
	C18:0 Methyl stearate (3%)	C22:1 Methyl erucate (5%)		
	C18:1 Methyl oleate (60%)	C24:0 Methyl lignocerate (3%)		
	C18:2 Methyl linoleate (12%)			
	C18:3 Methyl linolenate (5%)			
	C20:0 Methyl arachidate (3%)			
		Art. Nr.	Pack	Pack Type
		CL40.13762.0100	100 mg	AMP

Mustard seed & Peanut FAME Mix (10C)

CL40.13761

Quantification of FAME in vegetal oils

Solution contains stated concentration - Keep at -20°C

Density 0.91 g/ml HS Nr 38220000	C14:0 Methyl myristate (1%)	C22:0 Methyl behenate (3%)		
	C16:0 Methyl palmitate (4%)	C22:1 Methyl erucate (20%)		
	C18:0 Methyl stearate (3%)	C24:0 Methyl lignocerate (3%)		
	C18:1 Methyl oleate (45%)			
	C18:2 Methyl linoleate (15%)			
	C18:3 Methyl linolenate (3%)			
	C20:0 Methyl arachidate (3%)			
		Art. Nr.	Pack	Pack Type
		CL40.13761.0100	100 mg	AMP

Coconut & Palm kernel FAME Mix (8C)

CL40.13764

Quantification of FAME in vegetal oils

Solution contains stated concentration - Keep at -20°C

Density 0.91 g/ml HS Nr 38220000	C8:0 Methyl caprylate (7%)	C18:0 Methyl stearate (3%)	
	C10:0 Methyl caprate (5%)	C18:1 Methyl oleate (12%)	
	C12:0 Methyl laurate (48%)	C18:2 Methyl linoleate (3%)	
	C14:0 Methyl myristate (15%)		
	C16:0 Methyl palmitate (7%)		
		Art. Nr.	Pack
	CL40.13764.0100	100 mg	AMP

Palm & Lard FAME Mix (7C)

CL40.13765

Quantification of FAME in vegetal oils

Solution contains stated concentration - Keep at -20°C

Density 0.91 g/ml HS Nr 38220000	C14:0 Methyl myristate (2%)	C18:2 Methyl linoleate (7%)	
	C16:0 Methyl palmitate (30%)	C18:3 Methyl linolenate (3%)	
	C16:1 Methyl palmitoleate (3%)		
	C18:0 Methyl stearate (14%)		
	C18:1 Methyl oleate (41%)		
		Art. Nr.	Pack
	CL40.13765.0100	100 mg	AMP

FAME Mixtures

Corn & Soy FAME Mix (6C)

CL40.13759

Quantification of FAME in vegetal oils

Solution contains stated concentration - Keep at -20°C

Density 0.91 g/ml
HS Nr 38220000

C16:0 Methyl palmitate (6%)
C18:0 Methyl stearate (3%)
C18:1 Methyl oleate (35%)
C18:2 Methyl linoleate (50%)

C18:3 Methyl linolenate (3%)
C20:0 Methyl arachidate (3%)

Art. Nr.	Pack	Pack Type
CL40.13759.0100	100 mg	AMP

Hempseed & linseed FAME Mix (5C)

CL40.13760

Quantification of FAME in vegetal oils

Solution contains stated concentration - Keep at -20°C

Density 0.91 g/ml
HS Nr 38220000

C16:0 Methyl palmitate (7%)
C18:0 Methyl stearate (5%)
C18:1 Methyl oleate (18%)
C18:2 Methyl linoleate (36%)

C18:3 Methyl linolenate (34%)

Art. Nr.	Pack	Pack Type
CL40.13760.0100	100 mg	AMP

Olive & Neatsfoot FAME Mix (4C)

CL40.13763

Quantification of FAME in vegetal oils

Solution contains stated concentration - Keep at -20°C

Density 0.91 g/ml
HS Nr 38220000

C16:0 Methyl palmitate (11%)
C18:0 Methyl stearate (3%)
C18:1 Methyl oleate (80%)

C18:2 Methyl linoleate (6%)

Art. Nr.	Pack	Pack Type
CL40.13763.0100	100 mg	AMP



Low Erucic Rapeseed FAEE Mix (11C)

NEW CL40.13788


Quantification of FAEE in vegetal oils Solution contains stated concentration - Keep at -20°C

Density 0.91 g/ml HS Nr 38220000	C14:0 Ethyl myristate (1%) C16:0 Ethyl palmitate (4%) C18:0 Ethyl stearate (3%) C18:1 Ethyl oleate (60%) C18:2 Ethyl linoleate (12%) C18:3 Ethyl linolenate (5%) C20:0 Ethyl arachidate (3%)	C20:1 Ethyl eicosenoate (1%) C22:0 Ethyl behenate (3%) C22:1 Ethyl erucate (5%) C24:0 Ethyl lignocerate (3%)
	Art. Nr. Pack Pack Type CL40.13788.0100 100 mg AMP	

FAEE C4-C24 Even Mix (11C) standard solution

NEW CL40.13789

Quantification of FAEE in vegetal oils Solution contains 1000 µg/ml in n-Hexane - Keep at -20°C

Density 0.66 g/ml HS Nr 38220000 HNrs H225-H304-H361-H373-H315-H336-H411 PNrs P210-P240-P273-P301 + P310-P331-P302 + P352-P403 + P235 DANGER. 	UN 1208 ADR 3,II IATA 3,II IMDG 3,II C04:0 Ethyl butyrate C06:0 Ethyl hexanoate C08:0 Ethyl octanoate C10:0 Ethyl decanoate C12:0 Ethyl dodecanoate C14:0 Ethyl myristate C16:0 Ethyl palmitate C18:0 Ethyl stearate C20:0 Ethyl arachidate C22:0 Ethyl behenate C24:0 Ethyl tetracosanoate	C20:1 Ethyl eicosenoate (1%) C22:0 Ethyl behenate (3%) C22:1 Ethyl erucate (5%) C24:0 Ethyl lignocerate (3%)
	Art. Nr. Pack Pack Type CL40.13789.0001 1 ml AMP	

Coconut & Palm kernel FAEE Mix (8C)

NEW CL40.13787

Quantification of FAEE in vegetal oils Solution contains stated concentration - Keep at -20°C

Density 0.91 g/ml HS Nr 38220000	C8:0 Ethyl caprylate (7%) C10:0 Ethyl caprate (5%) C12:0 Ethyl laurate (48%) C14:0 Ethyl myristate (15%) C16:0 Ethyl palmitate (7%)	C18:0 Ethyl stearate (3%) C18:1 Ethyl oleate (12%) C18:2 Ethyl linoleate (3%)
	Art. Nr. Pack Pack Type CL40.13787.0100 100 mg AMP	

Corn & Soy FAEE Mix (6C)

NEW CL40.13786

Quantification of FAEE in vegetal oils Solution contains stated concentration - Keep at -20°C

Density 0.91 g/ml HS Nr 38220000	C16:0 Ethyl palmitate (6%) C18:0 Ethyl stearate (3%) C18:1 Ethyl oleate (35%) C18:2 Ethyl linoleate (50%)	C18:3 Ethyl linolenate (3%) C20:0 Ethyl arachidate (3%)
	Art. Nr. Pack Pack Type CL40.13786.0100 100 mg AMP	



Biofuel 100 standard solution

NEW CL41.0288

High quality standard for GC, HPLC Solution contains 20000 µg/ml in Dichloromethane

<p>Density 1.32 g/ml HS Nr 38220000</p> <p>HNrs H351 PNrs P281-P308 + P313</p> <p>WARNING. </p>	<p>UN 1593 ADR 6.1,III IATA 6.1,III IMDG 6.1,III</p>	<p>Biofuel 100</p>			
			Art. Nr.	Pack	Pack Type
			CL41.0288.0002	2 ml	AMP

Biofuel 100 standard solution

NEW CL41.0287

High quality standard for GC, HPLC Solution contains 500 µg/ml in Dichloromethane

<p>Density 1.32 g/ml HS Nr 38220000</p> <p>HNrs H351 PNrs P281-P308 + P313</p> <p>WARNING. </p>	<p>UN 1593 ADR 6.1,III IATA 6.1,III IMDG 6.1,III</p>	<p>Biofuel 100</p>			
			Art. Nr.	Pack	Pack Type
			CL41.0287.0002	2 ml	AMP

Biofuel 20 standard solution

NEW CL41.0286

High quality standard for GC, HPLC Solution contains 20000 µg/ml in Dichloromethane

<p>Density 1.32 g/ml HS Nr 38220000</p> <p>HNrs H351 PNrs P281-P308 + P313</p> <p>WARNING. </p>	<p>UN 1593 ADR 6.1,III IATA 6.1,III IMDG 6.1,III</p>	<p>Biofuel 20</p>			
			Art. Nr.	Pack	Pack Type
			CL41.0286.0002	2 ml	AMP

Biofuel 20 standard solution

NEW CL41.0285

High quality standard for GC, HPLC Solution contains 500 µg/ml in Dichloromethane

<p>Density 1.32 g/ml HS Nr 38220000</p> <p>HNrs H351 PNrs P281-P308 + P313</p> <p>WARNING. </p>	<p>UN 1593 ADR 6.1,III IATA 6.1,III IMDG 6.1,III</p>	<p>Biofuel 20</p>			
			Art. Nr.	Pack	Pack Type
			CL41.0285.0002	2 ml	AMP

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