

# Fuel & biofuel testing Amsterdam

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**SGS**

## Gasoline

Acetone	D4815, D5134, D7423
Acetonitrile	D7423
Alcohols	D4815, D6730, ISO22854, EN13132
Alkanes C6-C9	D6839
Anthracene	D6730
Aromatics	D5580, D1319, D5443, D6730, ISO3837, D7504, ISO22854, UOP744, EN15553, D6839
Benzene	D6730, ISO22854, D6839, D7504, D5134, UOP744, D5580, D5443, EN12177, D7504, D3606
Bromine index	D2710, D5776, D1159
C4 content	D6730, D6839, ISO22854, D5441
C5 content	D6730, D6839, ISO22854, D5441
C6 content	D6730, D6839, ISO22854
C7 content	D6730, D6839, ISO22854
C8 content	D6730, D6839, ISO22854
C9 content	D6730, D6839, ISO22854
Colour	ISO2049, D2274, D6045, D1500, D1209, D156
Conductivity	D2624
Copper	EN16576, EN16136
Copper Corrosion	D130, ISO2160, DIN51759
Cumene	D7504
Cyclohexane	D5134
Density	D4052, ISO12185
Dicyclopentadiene	D7504
Diethylbenzenes	UOP744
Diethylether	D7423
Diisopropylether (DIPE)	ISO22854, D4815
Distillation Full @760 mm Hg	D86, EN3405
Doctor Test	D4952, IP30, ISO5275
Drivability	D4814
Dry Vapour Pressure Equivalent (DVPE)	D5191, EN13016-1, D4953, EPA/D5191
Ethyltertbutylether (ETBE)	ISO22854, D6839, EN13132, D7423, D7796, D5441
Ethanol	ISO22854, D4815, D6839, EN13132, D7796
Ethers	D7423, D4815, D6839, EN13132, ISO22854, D6730
Ethylbenzene	D6730, D7504
Ethyltoluene	UOP744
Existent Gum of Aviation Turbine Fuels	IP540
Ferrocene (as Fe)	D3831, EN16136
Gum Content	D381, ISO6246
Hydrogensulfide (H2S)	UOP163
Hexane	D6839
i-Paraffins	D6839

## Gasoline

Indanes & Indenes	D6730
Induction Period	D525
Iron	D3831, EN16136, EN16576
Isobutylalcohol	D4815, EN13132, D5441, D7423
Isopropylalcohol	D4815, EN13132, D5441, D7423
Iso- and cycloalkanes (C10-C11)	D6730
Isobutanol	EN13132, ISO22854
Isobutylene	D5441
Isopentane	D5134
Isoprene	D6730
Isopropylbenzene	UOP744
Lead	EN237, D3237, EN16136
m-Xylene	D7504, D6730
Manganese	D3831, EN16136, EN16576
Methylethylketone	D7423
Mercaptan sulphur	UOP163, D3227
Methanol	D6863, D4815, EN13132, D7423, D5441, ISO22854
Methylaniline	D7504
MMT (as Mn)	EN16136, D3831
Motor Octane Number (MON)	D2700, ISO5163
Methyltertbutylether (MTBE)	ISO22854, D7423, D6839, D4815, EN13132, D5441
n-Butane	D5134
n-Hexane	D5134
n-Methylaniline	D7504
n-Paraffins	D6839
n-Pentane	D5134
n-Propanol	D4815, ISO22854
Naphtalene(s)	UOP744, D6730
Naphtenes	D6839, ISO22854
Neopentane	D5134
Nickel	EN16136
Non-Aromatics	D6839, UOP744
o-Xylene	D7504, D5134, D6730
Olefin mixtures (C5-C7)	D6730
Olefins	ISO22854, D6730, D1319, EN15553, D6839
Oxygenates	D7423, D4815, ISO22854, EN13132
Oxidation Stability	D525, ISO7536, EN7536
p-Xylene	D7504, UOP744, D6730
Paraffins	D6839, ISO22854
Phosphorous	D3231
Potential Gum	D873, ISO7536
Reid Vapour Pressure	D323

## Gasoline

Relation Steam/Liquid @60°C	D4814
Research Octane Number (RON)	D2699, ISO5164
Specific Gravity	D4052, ISO12185
Styrene	UOP744, EN13132
Sulphur	ISO20846, D5453, ISO8754, D2622
t-Pentanol	D7423
Tertamylethylether (TAEE)	D4815
Tertamylmethylether (TAME)	D4815, D7423, D6839, ISO22854, D5441
Tertbutylalcohol (TBA, t-Butanol)	D4815, ISO22854, D5441, EN13132, D7796
Tetramethylbenzene(s)	UOP744, D6730
Toluene	UOP744, D6839, D6730, D5580, ISO22854, D3606, D5134, D7504
Trimethylbenzene(s)	UOP744, D6730
True Vapour Pressure (TVP)	D6378
Vapour/Liquid Ratio (V/L-ratio)	D4814, D5188
Vanadium	EN16136
Vinyl Acetate	D6730
VLI	calculated, based on DVPE + Distillation
VOC	EPA Complex Model
Water	D1364, ISO 12937
Xylenes	D6839, UOP744, D6563, D5580, D6730





## Gasoil and diesel

Ash	EN26245, D482
Carbon Residue on 10% bottom	ISO10370, D189
Cellular Adenosine Triphosphate (ATP)	D7687-17
Cetane Index	ISO4264, D976
Cetane Number	ISO5165
Cloud Point	ISO3015
Cold Filter Plugging Point (CFPP)	EN116
Colour ASTM	D1500
Copper Corrosion	ISO2160, D130
Density	ISO12185, D4052
Dehazing	D7451
Distillation Full @760 mm Hg	D86, EN3405
Electrical Conductivity	D2624
Fatty Acid Methyl Ester	EN14078
Filter blocking tendency	IP387, D2068
Flash Point - PM cc	ENISO22719, D93
H.F.R.R. (lubricity)	ISO12156-1
Nitrogen	D4629
Oxidation Stability	ISO12205
Oxidation Stability (Ranzimat)	EN15751
Oxidation Stability, total insolubles	D2274
Particulate Matter (Total Contamination)	EN12662
Polycyclic Aromatic Hydrocarbons (PAH's)	EN12916
Pour Point	D97
Solvent Yellow 124	MAD445
Strong Acid Number	D974
Sulphur	ENISO20846, D2622, D5453
Total acid number	D974
Viscosity	ISO3104, D445
Water and sediment	NF07-20
Water KF	ISO12937

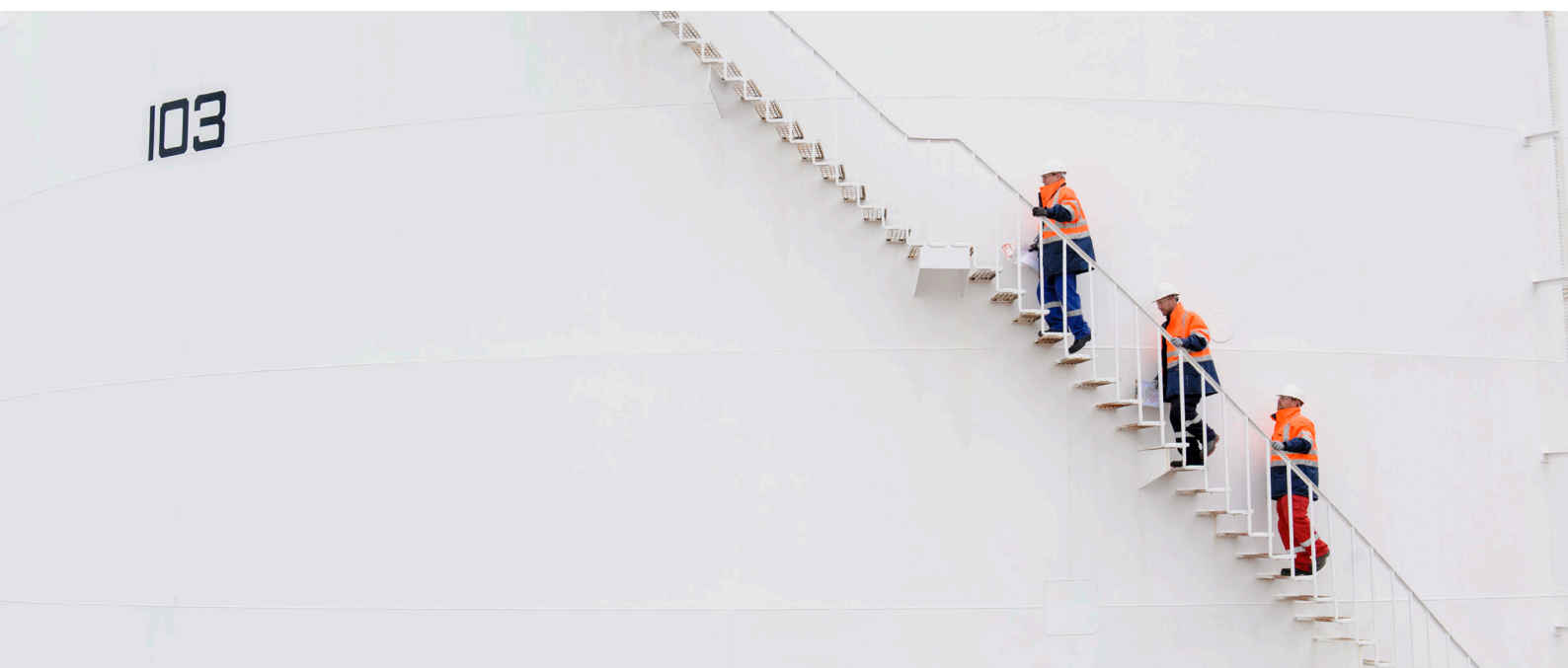


## FAME - Biodiesel

Acid Number	EN14104
Cetane Number	ISO5165
Cloudpoint	D2500, EN 23015
Cold Filter Plugging Point (CFPP)	EN116
Copper Corrosion	ISO2160
Density	ISO12185
Element Analysis (Ca, K, Na, Mg, K)	EN14538
FAME content	EN14103
Flashpoint (Seta Flash)	ISO3679
Glycerol/Glycerides	EN14105
Iodine Number	EN14111
Linolenic Acid Methyl Ester	EN14103
Methanol	EN14110
Oxidation Stability	EN15751
Phosphorous	EN14107
Polyunsaturated methyl esters	EN15779
Sulphated ash	ISO3987
Sulphur	ENISO20846
Total Contamination	EN12662
Viscosity	ISO3104
Water content	ISO12937
Pour Point	D97

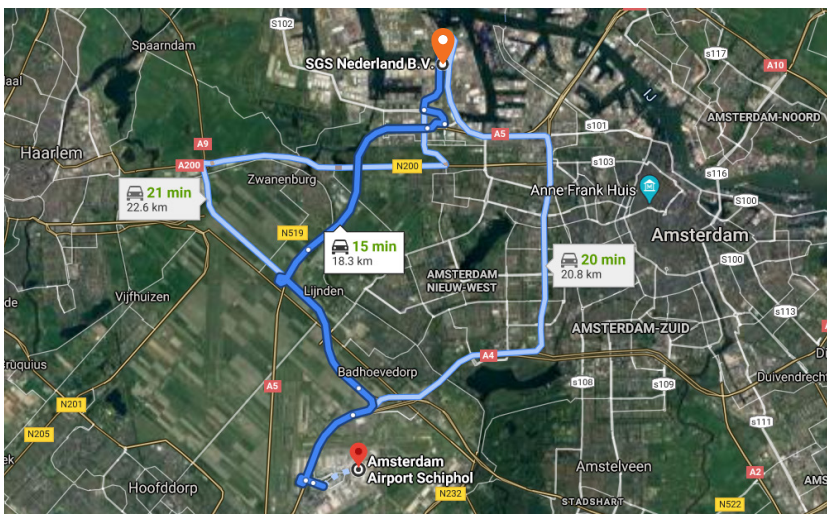
## Bacteria & microorganisms: fuel, biofuels, fuel-water mixtures and fuel-associated water

Adenosine triphosphate (ATP) rapid test	D7687-17
Biogenic carbon content	DIN 51637 , EN 16640 , ASTM D 6866
Sulphate reducing bacteria (SRB by MPN)	NACE TMO-194 2014



## Ethanol

EN 15376 Fuel Grade Specification	EN14104	Chlorides	field-test
Acidity as acetic acid	EN15491	Colour Pt/Co	D1209
Appearance	EN15769	Contamination	EN12662
Chloride as CL-	EN15492	Density	D4052, ENISO12185
Conductivity	EN15938	Esters	SGSETOH0001
Copper as Cu	EN15837	Ethanol content	OIML73
Density	D4052	Furfural	PBL90
Ethanol	EN15721	Heavy metals (as lead)	European Pharma
Higher saturated alcohols	EN15721	Higher alcohols (Komarowsky)	SGSETOH0001
Saturated mono alcohols (C3-C5)	EN15721	Isopropylalcohol (IPA)	SGSETOH0001, SGSSPI375
Methanol	EN15721	Methanol	SGSETOH0001
Non-volatile matter	EN15691	Methyl Ethyl Ketone (MEK)	SGSETOH0001
Phosphorous as P	EN15837	Odour	SGSSPI189
Sulfate as SO42-	EN15492	Permanganate Time Test	D1363
Sulphur	EN15486	Residue on evaporation	D1353
Water	EN15692	Sulphur	D5453
Neutral		Tert butyl alcohol (TBA)	SGSETOH0001
Acetate	SGSETOH0001	Turbidity	D1722
Acetone	SGSETOH0001	UV Absorption	USP30, SGSCORP001
Acid as acetic acid	D1613	Volatile impurities (higher alcohols and esters)	SGSETOH0001
Alcoholic strength	OIML	Volatile nitrogen bases as N	PB L 90
Aldehyde	SGSETOH0001	Water	D1364
Appearance	PBL90	Water miscibility	D1722
Benzene	SGSETOH0001		
Bitrex	D7304		
Carbonyl content	E411		



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When you need to be sure