

# Technical Specification

## Liquid Biohydrocarbons

Parameter	Unit	Liquid biohydrocarbons	Test method
Research Octane Number, RON		> 91	EN ISO 5164
Motor Octane Number, MON		> 82	EN ISO 5163
Density at 15°C	kg/m <sup>3</sup>	720 - 775	EN ISO 12185
Appearance		clear and transparent	ASTM D4176 procedure 2
Content of hydrocarbons: - olefins - aromatics	% (V/V)	0 – 10 30 – 45	EN ISO 22854
Oxygen content	% (m/m)	< 0,8	EN ISO 22854
Content of organic compounds containing oxygen: - methanol - ethanol - isopropyl alcohol - isobutyl alcohol - tert-butyl alcohol - ethers (with 5 or more carbon atoms) - other oxygen - containing organic compounds <sup>1</sup>	% (V/V)	< 0,8 < 0,8 < 0,8 < 0,8 < 0,8 < 0,8 < 0,8	EN ISO 22854
Vapour pressure, DVPE	kPa	45– 90	EN 13016-1
Fractional composition: - evaporates to 70°C, E70 - evaporates to 100°C, E100 - evaporates to 150°C, E150 - final boiling point, FBP - distillation residue	% (V/V) % (V/V) % (V/V) °C % (V/V)	15 – 30 30 – 50 60 – 80 max. 210 max. 2,0	EN ISO 3405
Benzene content	% (V/V)	< 1,0	EN ISO 22854
Sulphur content	mg/kg	< 10,0	EN ISO 20846
Oxidation stability	min	> 360	EN ISO 7536
Gum content (after washing with solvent)	mg/100cm <sup>3</sup>	< 5	EN ISO 6246
Copper strip corrosion test (3h at 50°C)	degree of corrosion	class 1	EN ISO 2160

1. Other alcohols with one hydroxyl group or ethers with the final boiling point temperatures not higher than 210°C.