

CERTIFICATE OF QUALITY

VESSEL CARGO	TMS ALNIKA
	GASOLINE SM EN 228
BL DATE	27-04-2026
BL NUMBER	97
SHORE TANK	B88
PORT	MIDIA, ROMANIA
BERTH	9A
OPERATION	LOADING

TO IM ROMPETROL MOLDOVA SA

Property	Units	Limits		Test Method	Result
		min	max		
Research octane number, RON		95,0	--	EN ISO 5164	96.3
Motor octane number, MON		85,0	--	EN ISO 5163	85.0
Lead content	gr/l	--	0.005	SR EN 237/EN237/ASTM D 3237	<0.0025
Density (at 15 °C)	kg/m3	720,0	775,0	EN ISO 3675/EN ISO 12185	756.3
Sulfur content	mg/kg	--	10,0	SR EN ISO 20846/EN ISO 20846/ISO 20846/SR EN ISO 20884/EN ISO 20884/ISO 20884 ASTM D 5453	4.6
Oxidation stability	minutes	360	--	EN ISO 7536	>900
Existent gum content (solvent washed)	mg/100 ml	--	5	EN ISO 6246	1.0
Copper strip corrosion (3 h at 50 °C)	rating	class 1		EN ISO 2160	1b
Appearance		clear and bright		Visual inspection	clear and bright
Hydrocarbon type content	% (V/V)			EN15553	
Aromatics Hydrocarbons	vol.%	--	35,0	SR EN 15553/EN 15553/SR EN ISO 22854/EN ISO 22854/ISO 22854/ ASTM D 1319/ASTM D 6839	34.5
Benzene content	% (V/V)	--	1,00	SR EN ISO 22854/EN ISO 22854/ISO 22854/ASTM D 6839	0.96
Vapour pressure (VP)	kPa			EN 13016-1	
- winter		60,0	90,0		
- summer		45,0	60,0		57.6
- transition		60,0	90,0		
Distillation at atmospheric pressure					
- % evaporated at 70°C, E70	% (V/V)				
- winter		22,0	52,0		
- summer		20,0	50,0		
- transition		22,0	52,0	ASTM D 86/SR EN ISO 3405/EN ISO 3405/ISO 3405	26.3
- % evaporated at 100°C, E100	% (V/V)	46,0	72,0		52.4
- % evaporated at 150°C, E150	% (V/V)	75,0	--		88.4
Final Boiling Point FBP	°C	--	210		197.5
Distillation residue	% (V/V)	--	2		1.0
Volumetric share of olefins	%	--	18	SR EN 15553/EN 15553/SR EN ISO 22854/EN ISO 22854/ISO 22854/ASTM D 1319/ASTM D 6839	11.4
Mass fraction of oxygen content	%	--	3.7	SR EN ISO 22854/EN ISO 22854/ISO 22854/ASTM D 6839	2.55
Volumetric share of methanol	%	--	3,0		0.10
Volumetric share of ethanol	%	--	10		0.06
Volumetric fraction of isopropyl alcohol	%	--	12		<0.03
Volumetric share of methyl propyl alcohol	%	--	15		<0.03
Volumetric share of tertiary butyl alcohol	%	--	15		<0.03
Volumetric fraction of ethers (with 5 or more C atoms in a molecule)	%	--	22	SR EN ISO 22854/EN ISO 22854/ISO 22854/ASTM D 6839	13.86
MTBE content	%				13.60
ETBE content	%				0.25
TAME content	%				<0.03
Volumetric share of other oxygenates	%	--	15		<0.03

summer : 1st may - 30th september
 transition autumn : 1st october - 15th november
 winter : 16th november - 15th march
 transition spring : 16th march - 30th april

Sample Origin: SHORE TANKS COMPOSITE BEFORE LOADING

Tests were performed in ROMPETROL LABORATORY and witnessed by GKV Inspectors.

When analysis witnessed by G.K.V. Ltd. Inspector, our responsibility is solely to ensure that the analysis is conducted to standard test methods according with accepted industry practice. We are not responsible for apparatus, instrumentation and measuring devices. Reagents and solutions are accepted as prepared.

For G.K.V. Ltd.
 Independent Inspector at Loading Port

Name Gheorghe Catalin
 Dated 27-04-2026