

ANALYSIS REPORT		26028/01204000/14	13.05.2014
<p>Sample submitted as : High-Octane Methanol Additive TU 0257-003-48158319-2001 with ch. 1-3</p> <p>Object : Sample</p> <p>Marked : No info</p> <p>Received : Sample submitted by Client</p> <p>Location : No info</p> <p>Date of sampling : No info</p> <p>Number of samples : 1 x 1.0 L</p> <p>Number of seal : Open</p>			
TEST	UNIT	METHOD	RESULT
<p>Composition:</p> <ul style="list-style-type: none"> - n-paraffins - i-paraffins - naphthenes - aromatics - olefins - oxygenates - C15+ - unknowns - Benzene - MTBE - ETBE - DIPE - TAME - Methanol - Ethanol - tert-Butanol - 2-Propanol - 2-Butanol - 1-Propanol - iso-Butanol - 1-Butanol - tert-Pentanol 	% m/m	(+) GC	<p>9.89</p> <p>19.15</p> <p>6.99</p> <p>15.53</p> <p>35.64</p> <p>12.43</p> <p>0.01</p> <p>0.36</p> <p>0.30</p> <p>9.04</p> <p>2.43</p> <p>Less 0.01</p> <p>Less 0.01</p> <p>Less 0.01</p> <p>Less 0.01</p> <p>0.54</p> <p>0.09</p> <p>Less 0.01</p> <p>Less 0.01</p> <p>0.18</p> <p>0.04</p> <p>0.11</p>

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Date of sampling	: No info		
Number of samples	: 1 x 1.0 L		
Number of seal	: Open		
TEST	UNIT	METHOD	RESULT
Composition:	% v/v	(+) GC	
- n-paraffins			11.02
- i-paraffins			22.57
- naphthenes			6.33
- aromatics			12.52
- olefins			35.56
- oxygenates			11.70
- C15+			0.01
- unknowns			0.29
- Benzene			0.24
- MTBE			8.55
- ETBE			2.30
- DIPE			Less 0.01
- TAME			Less 0.01
- Methanol			Less 0.01
- Ethanol			Less 0.01
- tert-Butanol			0.48
- 2-Propanol			0.08
- 2-Butanol			Less 0.01
- 1-Propanol			Less 0.01
- iso-Butanol			0.16
- 1-Butanol			0.04
- tert-Pentanol			0.09

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TEST	UNIT	METHOD	RESULT
Atmospheric Distillation:		(*) ASTM D 86	
- IBP	°C		29.0
- 5% recovered at	°C		40.0
- 10% recovered at	°C		43.5
- 15% recovered at	°C		47.0
- 20% recovered at	°C		50.0
- 30% recovered at	°C		56.0
- 40% recovered at	°C		62.5
- 50% recovered at	°C		72.0
- 60% recovered at	°C		84.0
- 70% recovered at	°C		101.5
- 80% recovered at	°C		119.5
- 85% recovered at	°C		130.5
- 90% recovered at	°C		140.0
- 95% recovered at	°C		159.5
- FBP	°C		175.0
- Recovery	v/v %		98.0
- Residue	v/v %		0.6
- Loss	v/v %		1.4

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TEST	UNIT	METHOD	RESULT
Density at 15°C	g/ml	ASTM D 4052	0.7213
Total Sulphur	mg/kg	(*) ISO 20846	3.2
DVPE	kPa	ASTM D 5191	80.3
Gum (solvent washed)	mg/100 ml	(*) ASTM D 381	Less 0.5

Remarks: (+) - the test was performed with use of GC/Supelco technique - the Technique of components` identification in the light petroleum products, including pyrolysis products with final boiling point up to 210 ° C, is based on ASTM D 5134, ASTM D 6729 and the Supelco standard database by "Petroleum refinery pyrolysis gasoline (PY Gas)".

(*) - this method is not applicable for analysis of such type of product. The analysis is executed on demand of the Client.

Precision parameters apply in the evaluation of the test results specified above. Please also refer to ASTM D 3244 (except for analysis of RFG), IP 367 with respect to the utilization of test data to determine conformance with specifications.

Issuer warrants that it has exercised due diligence and care with respect to the information and professional judgements embodied in this report. This report reflects only the findings at the time and place of the inspection and testing.

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