

Joint Stock Company Angarsk Petrochemical Company Legal address:

665800, Irkutsk region, Angarsk, Pervyi industrial area, block 63, bld. 2 Place of manufacture

Irkutsk region, Angarsk

E-mail: delo@anhk.rosneft.ru, tel. (3955) 578-404; 577-002

Certificate of Quality Management System ISO 9001:2015 № 19.2132.026 Certificate validity period: through 14.11.2022 ISO/TS 29001:2010 No. 19.2140.026

Certificate validity period: through 14.11.2022

Test Center - Quality Control Division, Joint Stock Company Angarsk Petrochemical Company 665830, Irkutsk region, Angarsk, territory of JSC Angarsk Petrochemical Company e-mail: of61@anhk.rosneft.ru. tel. (3955) 575-423

QUALITY CERTIFICATE No. 1 Premium technical-grade isobutyl alcohol **Export**

Documents establishing products specifications:

GOST 9536-2013 "Technical-grade isobutyl alcohol "Technical specifications.

OKPD 2 Code 20.14.22.116

Batch number: 1

Date of manufacture: 22.12.2021 Batch size (mass): 429.068 t

Sampling site (according to GOST 2517): Tank No. 51

Date of sampling: 22.12.2021 Test date: 22.12.2021

The certificate was issued on the basis of test results dated 22.12.2021 No. 6036-250101/ПК



No.	Indicator	Technique	GOST 9536-2013	Actual
		Test	standard	value
1	Coloration on the platinum-cobalt scale	GOST 14871-76	no more than 7	7
		section 1		
2	Density at 20 °C, g/cm3	ASTMD 4052-	0,801-0,803	0.802
		18a		
3	Mass fraction of isobutyl alcohol, %	p. 7.4 GOST	no less than 99,3	99.8
		9536-2013		
4	Mass fraction of acids expressed as acetic acid,%	p. 7.5 GOST	no more than 0,003	0.001
		9536-2013		
5	Bromine number, g of bromine per 100 g of alcohol	p. 7.6. GOST	no more than 0,02	absent
		9536-2013		
6	Mass fraction of carbonyl compounds expressed as	p. 7.7 GOST	no more than 0,03	0.003
	butyraldehyde, %	9536-2013		
7	Mass fraction of non-volatile residue, %	p. 7.8 GOST	no more	0.0010
		9536-2013	than 0,0025	
8	Mass fraction of water, %	GOST 14870-77	no more than 0,1	0.05
	ion Drawing to be in larger in the state of the top by in larger	section 2		

Conclusion: Premium technical-grade isobutyl alcohol, meets the technical specifications of:

Additional Information:

Transportation and storage - according to GOST 9536-2013. The manufacturer, JSC "Angarsk petrochemical Company", guarantees premium technical-grade isobutyl alcohol quality subject to meeting the terms and conditions of acceptance, transportation and storage in accordance with GOST 9536-2013 for 3 years from the date of manufacture,

Safety Data Sheet No. 05742746.24.36932

Shift supervisor of technological production shop No. 1 /signature/ A.Y. Shakho	vsky
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Certificate issue date 22.12.2021

L.S.

Accepted for shipment by the Logistics Support Department JSC RN-TRANS

/ barcode /

/ seal/ for product certificates 5 * JSC Angarsk Petrochemical Company* For product quality certificates*

GOST 9536-2013 "Technical-grade isobutyl alcohol "Technical specifications.



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Appendix to Quality Certificate No. 1 dated 22.12.2021

Premium technical-grade isobutyl alcohol GOST 9536-2013 "Technical-grade isobutyl alcohol "Technical specifications.

Item No.	Legislative act, regulatory	Information required for the product description		
	document or set of rules	Indicator	Testing method	Actual value
1	Decision of the Council of the Eurasian Economic Commission dated	The aggregate state at 20°C and a pressure of 760 mm Hg.		liquid aggregate state
	14.09.2021 No. 80 "On Approval of the Eurasian Economic Union's Commodity Nomenclature of Foreign Economic Activity of the Eurasian Economic Union and the Unified Customs Tariff of the Eurasian Economic Union"	ether and (or) other ethers and (or) alcohols is at least 85 percent by weight, %	p. 7.4 GOST 9536-2013	99.8
		Process name		

Foreman of Technological Production Shop No. 1 A.Y. Shakhovsky

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