

Joint Stock Company Angarsk Petrochemical Company Legal address:

665800, Irkutsk region, Angarsk, Pervyi industrial area, block 63, bldg. 2

Place of manufacture: Irkutsk region, Angarsk

e-mail: delo@anhk.rosneft.ru, tel. 577-002

Certificate of Quality Management System ISO 9001:2015 No. 16.1675.026 Certificate validity period: until November 14, 2019

ISO/TS 29001:2010 No. 16.1687.026

Certificate validity period: until November 14, 2019

Testing center - Quality Control Department 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

PASSPORT No. 108 Butyl alcohol, normal, technical brand A, premium **Export**

Designation of documents that establish requirements for products: GOST 5208-2013 "Technical normal butyl alcohol. Specifications" OKPD2 code 20.14.22.114 Batch number: 108 Date of manufacture: December 29, 2021 Batch size (mass): 556,335 t Sampling site (according to GOST 2517): Tank No. 56 Date of sampling: December 29, 2021

Test date: January 29, 2021 The passport was issued on the basis of test results dated December 29, 2021, No. 6140-250101/ПК



No.	Name of the indicator	Testing method	The norm according to GOST 5208-2013	The actual value
1	Chromaticity according to the platinum cobalt color scheme, Hazen units, not more	GOST 14871-76 section 1	not more than 10	10
2	Density at 20 °C, kg/cm³	ASTM D 4052-18a (Manual Sampling injection)	0.809–0.811	0.8096
3	Mass fraction of butyl alcohol, %	cl. 7.4 GOST 5208-2013	not less than 99.4	99.8
4	Mass fraction of acids in terms of acetic acid,%	cl. 7.5 GOST 5208-2013	not more than 0.003	0.0011
5	Bromine number, g of bromine per 100 g of alcohol	cl. 7.6 GOST 5208-2013	not more than 0.02	absence
6	Mass fraction of carbonyl compounds as equivalent of butyraldehyde, %	cl. 7.7 GOST 5208-2013	not more than 0.06	0.013
7	Mass fraction of non-volatile residue, %	cl. 7.8 GOST 5208-2013	not more than 0.0025	0.0009
8	Mass fraction of water, %	GOST 14870-77 section 2	not more than 0.1	0.010

<u>Conclusion:</u> Butyl alcohol normal technical, brand A premium meets the requirements: - GOST 5208-2013 "Technical normal butyl alcohol. Specifications"

Additional Information:

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Transportation and storage - according to GOST 5208. Provided that the conditions of acceptance, transportation and storage in accordance with GOST 5208 for 3 years from the date of manufacture imposed shall be fulfilled, the manufacturer JSC ANHK guarantees that the quality of butyl alcohol, normal technical, grade A,

- safety data sheet No. 05742746.20.60066

Foreman of the Technological Production Shop No. 1 /signature/ Shakhov	ky A.Yu.
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Passport (safety data sheet) issue date December 29, 2021

/ Stamp/: for product certificates 1 * JSC Angarsk

Petrochemical Company

Accepted for shipment by the Logistics Support Department RN-Trans JSC.

/barcode/



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

Annex to the Quality Certificate No. 108 dated December 29, 2021 Butyl alcohol, normal, technical brand A, premium GOST 5208-2013 "Technical normal butyl alcohol. Specifications"

Item No.	Designation of a legislative act, regulatory	Information required for the product description			
	document or set of rules	Name of the indicator	Testing method	The actual value	
1	Decision of the Council of the Eurasian Economic Commission dated July 16, 2012 No. 54 "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"	20 °C and a pressure of 760 mm Hg		liquid aggregate state	
		and (or) other ethers and (or) alcohols is at	cl. 7.4 GOST 5208-2013	99.8	
		Processing name			

Foreman of the Technological Production Shop No. 1 /signature/ Shakhovsky A.Yu.

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