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JSC Angarsk Petrochemical Company
Legal address:
665800, Irkutsk region, Angarsk, Pervyi industrial area, block 63, bld. 2
Place of manufacture:
Irkutsk region, Angarsk city
e-mail: delo@anhk.rosneft.ru, tel. (3955) 578-404; 577-002

Certificate of Quality Management System ISO 9001:2015 No. 19.2132.026
Certificate validity period: until November 14, 2022
ISO/TS 29001:2010 No. 19.2140.026

Certificate validity period: until November 14, 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

CERTIFICATE No. 212
Methanol technical grade A

Documents establishing products specifications:
GOST 2222-95 "Technical methanol. Specifications"
OKPD2 code 20.14.22.111
Batch number: 212
Date of manufacture: December 08, 2021
Batch size (mass): 71,962 t
Sampling site (according to GOST 2517): Tank No. E-17
Date of sampling: December 08, 2021
Test date: December 08, 2021

The certificate was issued on the basis of test results dated December 8, 2021 No.5789-250101/PK

No.	Name of the indicator	Technique Test	Standard according to GOST-2222-95	The actual value
1	Overall view	cl. 6 GOST 2222-95	Colorless transparent Liquid without insoluble impurities	Colorless transparent liquid without insoluble impurities 0.791
2	Density at 20 °C, g/cm ³	GOST-18995.1-73 (section 1)	0.791–0.792	
3	Miscibility with water	cl. 6.5 GOST 2222-95	Miscible with water without cloudiness or opalescence	Miscible with water without cloudiness or opalescence
4	Temperature limits: boiling point, °C 99 % of the product is distilled within, °C	GOST-25742.1-83	64.0–65.5 not more than 0.8	64,2–64,9 0.7
5	Mass fraction of water, %	GOST 14870-77 (section 2, electrometric titration titration)	not more than 0.05	0.010
6	Mass fraction of free acids in equivalent of formic acid, %	GOST-25742.2-83	not more than 0.0015 %.	0.0008
7	Mass fraction of aldehydes and ketones in equivalent of acetone, %	cl. 6.7 GOST 2222-95	not more than 0.003	0.0020
8	Potassium permanganate test, min	GOST-25742.5-83 (section 1–3)	not less than 60	65
9	Chromaticity according to the platinum cobalt color scheme, Hazen units	GOST-29131-91	not more than 5	5

Conclusion: Technical methanol grade A **complies with the requirements:**
– GOST 2222-95 "Technical methanol. Specifications"

Additional Information:

Classification code 3222 (according to GOST 19433-88).
Transportation and storage – according to GOST 2222. The manufacturer JSC ANHK guarantees the quality of Methanol of technical grade A, subject to the conditions of acceptance, transportation and storage in accordance with GOST 2222 within 6 months from the date of manufacture
- Safety Data Sheet No. 05742746.20.67757
- "Poison", "Flammable!"

Shift Supervisor of the petrochemistry
production (PCP) shop 39/61

Podashev E.I.

L.S.

Certificate issue date December 08, 2021

Accepted for shipment *4820934+855772J*

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Appendix to Certificate No. 212 dated December 08, 2021

Methanol technical grade A

GOST 2222-95 Technical methanol. Technical requirements

Item No.	Designation of a legislative act, regulatory document or set of rules	Information required for the product description		
		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"	The aggregate state at 20 °C and a pressure of 760 mm Hg.	-	liquid aggregate state
	Shift Supervisor of the petrochemistry production (PCP) shop 39/61	Process name Podashev E.I.		