



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. 98
Bottom residues of butyl alcohols manufacturing
(rectangular steel tank RPS-67)

Documents establishing product specifications:

TU 38.10717-77 Bottom residues of butyl alcohols manufacturing (RPS-67)

OKPD 2 Code 20.14.22.116

Batch number: 98

Date of manufacture: 31.12.2021

Batch size (mass): 78.913 t

Sampling site (according to GOST 2517): Tank No. 5r

Date of sampling: 31.12.2021

Test date: 31.12.2021

The certificate was issued on the basis of test results dated 31.12.2021 No.9595-250103/ПК

No.	Indicator	Test method	TU 38.10717-77 standard	Actual value
1	Overall view	Visually	homogeneous fluent liquid	homogeneous fluent liquid
2	Density at 20 °C, g/cm ³	GOST 3900-85	0.830-0.880	0.8493
3	Closed cup flash point, °C	GOST 6356-75	Not standardized, Definition required	57
4	Chilling point, °C	GOST 20287-91 (method B)	not higher than minus 50	below minus 70
5	Viscosity/density ratio at 20°C, mm ² /s	GOST 33-2016	no more than 10	5.283
6	Mass fraction of mechanical impurities, %	GOST 6370-83	absent	absent
7	Mass fraction of water, %	GOST 2477-2014	traces	absent

Conclusion: Bottom residues of butyl alcohols manufacturing (RPS-67) **meets the technical specifications of:**

- TU 38.10717-77 Bottom residues of butyl alcohols manufacturing (RPS-67)

Shift Supervisor of petrochemical production (PCP)
shop 135/136

/signature/

A.V. Griбанov

Certificate issue date 31.12.2021

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*



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**Appendix to Certificate No. 98 dated 31.12.2021
Bottom residues of butyl alcohols manufacturing
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TU 38.10717-77 Bottom residues of butyl alcohols manufacturing (RPS-67)

Item No.	Legislative act, regulatory document or set of rules	Information required for the product description		
		Indicator	Test method	Actual value
1	Tax Code of the Russian Federation, Article 181, sub-point 11 Decision of the Council of the Eurasian Economic Commission dated 16.07,2012 No. 54 "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"	1. Aggregate state at 20 °C and a pressure of 760 mm Hg.		liquid aggregate state
		Process name	-	

Shift Supervisor of petrochemical production (PCP) shop 135/136

A.V. Griбанov