

Joint Stock Company Novokuibyshevsk Petrochemical Company
Russian Federation, Samara Region, Novokuibyshevsk city
Email address: nnk@nnk.rosneft.ru tel.: (84635) 3-02-20
Certificate of quality management system for compliance with the requirements of
ISO 9001:2015 No. 31100975QM15. Certificate validity period: until 27.09.2024



QUALITY CERTIFICATE No. 1985

Fraction of normal butane A Grade TS 0272-026-00151638-99 with amendments No 1-7

EXPORT

Date of manufacture: 30.12.2021 **Bill of lading No.** 1/5
Date of sampling: 30.12.2021 **NET weight:** 37.350 t
Test date: 30.12.2021 **Rail tank car No.** 58194143

The tests were carried out at the Testing Center - Quality Control Department of NNK JSC
Certificate of accreditation No. ROSS RU.0001.515720 Date of entry of information into the register of accredited entities July 29, 2015.

No. Item No.	Name of the indicator	Norm	Actually	Testing method
1	Mass fraction of components. % : the amount of C ₁ – C ₂ hydrocarbons propane isobutane the amount of butylenes normal butane the amount of C _s hydrocarbons and higher	maximum 0.5 maximum 1.5 maximum 1.0 minimum 97.5 maximum 0.6	Less than 0.010 0.116 0.0412 99.84 Less than 0.0050	GOST 10679-2019
2	Mass fraction of hydrogen sulfide and mercaptan sulfur, %	maximum 0.005	0.0013	GOST 22985-2017
3	Free water and alkali content	Absence	Absence	TSU 0272-026-00151638- 99, item 5.3

Conclusion: The fraction of isobutane Grade A meets the requirements:

-TS 0272-026-00151638-99 with amendments No 1-7

Additional Information:

- Density at a temperature of 15°C, kg/m³ GOST 28656-2019 584.6

The manufacturer guarantees the product quality conformance with that standard, subject to meeting the terms of transportation and storage.

Warranty period of storage - 3 months from the date of manufacture

Stamp here Specialist /Signature/ E.I. Egorova
(signature) (surname, initials)

Certificate issue date: 31.12.2021

Round stamp:
/ Russian Federation *
Samara Region*
Novokuibyshevsk city
Joint Stock Company Novokuibyshevsk Petrochemical Company
For documents/