



**QUALITY CERTIFICATE NO. 96**  
**LIQUID PYROLYSIS PRODUCTS OF 35-230 °C and 35-270 °C FRACTIONS GRADE E-3**  
**TU 2451-178-72042240-2006 with amendments No. 1-6**  
**EXPORT**

**Date of manufacture** 26.12.2021 **Product vessel No.** 10/2  
**Date of sampling** 26.12.2021 **Net weight** 54.800 t  
**Test date** 27.12.2021 **Rail tank car No.** 50623370

The tests were carried out at the Test Center - Quality Control Department of JSC NNK

Certificate of accreditation No. ROSS RU.0001.515720 Date of information entry into the register of accredited entities July 29, 2015.

Item No.	Indicator	Standard	Actual	Testing method
1	Overall view	Light yellow to dark brown liquid with no mechanical impurities	Yellow to brown liquid with no mechanical impurities	GOST 2706.1-74 p.
2	Density at 20 °C, g/cm <sup>3</sup>	no less than 0.800	0,7885	GOST 3900-85 p.1
3	Fractional composition, °C 3.1 Initial boiling point 3.2 Final boiling point	not lower than 25 not higher than 300	27 177	GOST 2177-99 with amendm. 1 Method B
4	Mass fraction of aromatic hydrocarbons C <sub>6</sub> -C <sub>8</sub> in distillation yield under 185°C, %	no less than 55	56	TU 2451-178-72042240-
5	Mass fraction of benzene, %	no less than 23	20	2006 p. 5.6
6	Mass fraction of water, %	no more than 1	0.63	GOST-2477-2014

**Conclusion: Liquid pyrolysis products fractions 35-230 °C and 35-270 °C Grade E-3, meet the technical specifications:**

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p.2.5 to be agreed by the consumer

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

**Warranty period of storage: 1 month from the date of manufacture.**

L.S. Specialist \_\_\_\_\_ /signature/  
/seal /Russian Federation\* Samara Region\* (signature)  
Novokuibyshevsk, Joint Stock Company "Novokuibyshevsk Petrochemical Company"  
For documents\*/

O.S. Feklina  
(last name, initials)

Certificate issue date 28.12.2021