



QUALITY CERTIFICATE No. 23

Para-tertiary butylphenol Grade A

STO (Industry standard) 91051486-018-2013 with amendment No. 1

Date of manufacture	13.09.2021	Goods batch No.	49
Date of sampling	13.09.2021	Net weight	2,429 kg
Test date	13.09.2021	Number of packages	4

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 entry of information into the register of accredited entities July 29, 2015.

Item No.	Name of the indicator	Norm	Actual	Testing method
1	Overall view (under normal conditions)	White scales, granules, crystals. Melt-solid homogeneous crystalline substance of white colour. Pink creamy tint is allowed	White scales	STO (Industry Standard) 91051486-018- 2013 cl. 7.2
2	Freezing point, °C	not lower than 98	98.9	STO (Industry Standard) 91051486-018- 2013 cl. 7.3
3	Colour of solution in ethyl alcohol, Pt/Co	not more than 15	10	STO (Industry Standard) 91051486-018-2013 cl. 7.4
4	Mass fraction of base substance, %	minimum 99.5	over 99.8	MI No. 02-2013, certificate No. 21/01.00037-2011 dated 07.05.2013
5	Mass fraction of phenol, %	not more than 0.1	less than 0.0010	
6	Mass fraction of o-TBPh (tributyl phosphate), %	not more than 0.2	0.033	
7	Mass fraction of 2,4-diTBPh, %	not more than 0.1	0.003	
8	Mass fraction of water, %	not more than 0.1	0.05	GOST 14870-77, amendm.1-2, cl. 2

Conclusion: Para-tertiary butylphenol, Grade A, conforms to requirements

- STO (Industry standard) 91051486-018-2013 with amendment No. 1

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: 6 months from the date of manufacture.

Stamp here

Specialist

signature

(signature)

I.I. Krylova
(surname, initials)

Passport issue date: 15.10.2021

Stamp: For documents

Novokuibyshevsk Petrochemical Company Joint Stock Company