

## QUALITY CERTIFICATE No. 7

### Para-tertiary butylphenol Grade B

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

Date of manufacture	18.06.2021	Goods batch No.	86
Date of sampling	18.06.2021	Net weight	5,427 kg
Test date	18.06.2021	Number of packages	9

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.	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 97	98.9	STO (Industry Standard) 91051486-018-2013, cl. 7.3
3	Colour of solution in ethyl alcohol, Pt/Co	not more than 50	17	STO 91051486-018-2013 item 7.4
4	Mass fraction of base substance, %	minimum 97.0	Over 99.8	MI No. 02-2013, certificate No. 21/01.00037-2011 dated 07.05.2013
5	Mass fraction of phenol, %	Not standardized	less than 0.0010	
6	Mass fraction of o-TBPh (tributyl phosphate), %	Not standardized	0.006	
7	Mass fraction of 2,4-diTBPh, %	Not standardized	0.094	
8	Mass fraction of water, %	no more than 0.3	0.050	GOST 14870-77, amendm.1-2, cl. 2

**Conclusion: Para-tertiary butylphenol, Grade B, 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 storage period is 6 months from the date of manufacture.

Specialist

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*signature*  
(signature) /

R.A. Maksimenkova  
(surname, initials)

**Stamp:** For documents  
Novokuibyshevsk Petrochemical Company Joint Stock Company

Passport issue date: 20.09.2021