



Joint Stock Company Syzran Oil Refinery
Legal address and production site address:
Russian Federation, 446029 Samara region, Syzran, st. Astrakhanskaya, 1
e-mail: sekr@snpz.rosneft.ru, tel.: 8(8464) 97-91-10

Quality management system certificate for compliance with the requirements of ISO 9001:2015 N9 RU003488 Certificate validity period: until 24.11.2023

Oil and Petroleum Products Testing Center of an oil refinery
Sulfuric Acid Testing Laboratory
446029, Samara region, Syzran, st. Astrakhanskaya, 1,
Joint Stock Company Syzran Oil Refinery
e-mail: sekr@snpz.rosneft.ru, tel.: 8(8464) 98-81-10

QUALITY CERTIFICATE No. 332

**Sulfuric acid contact technical grade 1
As to GOST 2184-2013**

Document establishing product specifications:
GOST 2184-2013 "Sulfuric acid. Specifications".
OKPD2 code 20.13.24.122
Batch number: 332
Date of manufacture: 13.02.2022
Batch size (mass): 844.000 t
Sampling location (according to GOST 2184-2013): tank No. 501/1
Filling level: 7.980 m
Date of sampling: 13.02.2022
Test date: 13.02.2022
The certificate was issued on the basis of the test report: No. 332 dated February 13, 2022.

Name of the indicator	Testing method	GOST 2184-2013 Standard	Actual [VALUE]
1. Mass fraction of monohydrate (H ₂ SO ₄), %	cl. 7.3 GOST 2184-2013	no less than 92.5*	94.9
2. Mass fraction of iron, (Fe), %	cl. 7.4 GOST 2184-2013	no more than 0.02	0.004
3. Mass fraction of residue in ignition, %	cl. 7.5 GOST 2184-2013	no more than 0.05	0.033
4. Color of cm ³ for reference solution	cl. 7.12 GOST 2184-2013	no more than 6**	< 6
* Note No. 2 GOST 2184-2013 In the period from April 15 to November 1, it is allowed to supply contact technical sulfuric acid produced by the wet catalysis method with a mass fraction of monohydrate of at least 90%.			
** Note No. 9 GOST 2184-2013 It is allowed in contact technical sulfuric acid, of the 1st grade, produced in wet catalysis plants and in plants in which acid tars of petrochemical industries are used as raw materials, color from pink to purple.			

Conclusion: Sulfuric acid contact technical grade 1 **meets the requirements:**

- GOST 2184-2013 "Technical sulfuric acid. Specifications".

Additional Information:

- transportation and storage - according to GOST 2184-2013;
- warranty period of storage - one month from the date of shipment;
- safety data sheet RPB No. 05766586.20.68137. Valid until June 04, 2024

L.S.

Shift supervisor (of shop No. 4)
(Power of attorney No. 98 dated 31.12.21)
Date of issue of the certificate, from February 13, 2022

Seal/Shift Supervisor
(production No. 4)
Pyanykh O.V.

/seal/ Joint Stock Company "Syzran Oil Refinery"
Russian Federation Samara region Syzran city For
shipping documents