

CERTIFICATE OF ANALYSIS

Thermo Fisher Scientific's Quality System has been found to conform to Quality Management System Standard ISO9001:2015 by Intertek. Certificate Number. 2317548

13902		
A047198	6	
p-Toluenesulfonic acid monohydrate,99%,extra pure		
6192-52-	5	
16/Apr/20	025	
16/Apr/20	028	
INDIA		
synthetic		
Not directly derived from or manufactured with any animal byproducts in any way (Including but not limited to fermentation or nutrient broth, catalysts, enzymes).		
Units	Specifications	Test Value
	White to off-white	Almost white
	Adhering crystals	Adhering crystals
	May discolor to pink on storage	May discolor to pink on storage
	Conforms	Conforms
	100°C to 108°C	102°C
%	100°C to 108°C >=98.5 (On dry substance)	102°C 99.2 (On dry substance)
% %		
	>=98.5 (On dry substance)	99.2 (On dry substance)
%	>=98.5 (On dry substance) =<0.5 Sulfuric acid 10.0 to 13.0 (KF) The test method measures the	99.2 (On dry substance) 0.14 Sulfuric acid 10.3 (KF) The test method measures the
%	>=98.5 (On dry substance) =<0.5 Sulfuric acid 10.0 to 13.0 (KF) The test method measures the total amount of	99.2 (On dry substance) 0.14 Sulfuric acid 10.3 (KF) The test method measures the total amount of
%	>=98.5 (On dry substance) =<0.5 Sulfuric acid 10.0 to 13.0 (KF) The test method measures the total amount of different isomers of	99.2 (On dry substance) 0.14 Sulfuric acid 10.3 (KF) The test method measures the total amount of different isomers of
%	>=98.5 (On dry substance) =<0.5 Sulfuric acid 10.0 to 13.0 (KF) The test method measures the total amount of	99.2 (On dry substance) 0.14 Sulfuric acid 10.3 (KF) The test method measures the total amount of
	A047198 p-Toluen 6192-52- 16/Apr/20 16/Apr/20 INDIA synthetic Not direc (Including	A0471986 p-Toluenesulfonic acid monohydrate,99%,extra 6192-52-5 16/Apr/2025 16/Apr/2028 INDIA synthetic Not directly derived from or manufactured with a (Including but not limited to fermentation or nutr Units Specifications White to off-white Adhering crystals May discolor to pink on storage

Geert Torfs Supervisor, QC

Products are processed under ISO 9001:2015 quality management systems and samples are tested for conformance to the noted specifications. Certain data may have been supplied by third parties. We disclaim the implied warranties of merchantability and fitness for a particular purpose, and the accuracy of third-party data or information associated with the product. Products are for research and development use only. Products are not for direct administration to humans or animals. It is the responsibility of the final formulator or end user to determine suitability, and to qualify and/or validate each product for its intended use.

Note: The data listed is valid for all package sizes of this lot of this product, expressed as an extension of the catalogue number listed above.