

CERTIFICATE OF ANALYSIS

Thermo Fisher Scientific's Quality System has been found to conform to Quality Management System Standard ISO9001:2015 by TUV SUD America Inc.
 Certificate Number. 951001163

Catalogue Number A19332
 Lot Number Z03L050
 Description p-Toluenesulfonic acid sodium salt, 90+%
 CAS Number 657-84-1
 Quality Test/Release Date 04/Dec/2025
 Suggested retest date 04/Dec/2030
 Country of Origin Japan

Result Name	Units	Specifications	Test Value
Assay	%	≥90.0%	104.9
Chloride content	%	≤0.5%	0.0
Appearance (Color)		White	White
Form		Crystals or powder or crystalline powder	Powder
Impurity content	%	Sulfate: ≤6%	1.9
Loss on Drying	%	≤5.0% (U.S. sourced material)	1.5



Derek Roy
 Quality Manager, LCD

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.