

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

Catalogue Number	13903		
Lot Number	A0469183		
Description	p-Toluenesulfonyl chloride,99+%		
CAS Number	98-59-9		
Quality Test/Release Date	15/Jan/2025		
Suggested retest date	15/Jan/2027		
Country of Origin	REPUBLIC OF KOREA		
Declaration of Origin	synthetic		
Result Name	Units	Specifications	Test Value
	Units	Specifications White	Test Value White
Appearance (Color)	Units	•	
Appearance (Color) Appearance (Form)	Units	White	White
Appearance (Color) Appearance (Form) Infrared spectrum	Units	White Crystalline powder	White Crystalline powder
Result Name Appearance (Color) Appearance (Form) Infrared spectrum Melting point Assay	Units %	White Crystalline powder Conforms	White Crystalline powder Conforms
Appearance (Color) Appearance (Form) Infrared spectrum Melting point		White Crystalline powder Conforms 67°C to 69°C	White Crystalline powder Conforms 68°C

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.