

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 H63583
Lot Number R16L043
Description 1-Propylphosphonic acid cyclic anhydride, 50+% w/w soln. in dichloromethane
CAS Number 68957-94-8
Quality Test/Release Date 20/May/2025
Suggested retest date 20/May/2028
Country of Origin Germany

Result Name	Units	Specifications	Test Value
Assay (unspecified)	%	≥50.0% =/-w/w] Anhydride value	52.4
Assay (unspecified)	%	≥40.0% =/-w/w] 1-Propylphosphonic acid	52.3
Appearance (Color)		Colorless to brown	Colorless
Form		Liquid	Liquid
Impurity content	%	≤50.0% =/-w/w] Dichloromethane (solvent)	47.6
Impurity content	%	≤10.0% =/-w/w] Pyro-propanphosphoric acid	0.1
Impurity content	%	≤0.5% =/-w/w] Propanphosphoric acid	<0.1

John Astarita

John Astarita
Director, Quality

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.