

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	27863
Lot Number	A0480001
Description	Polysorbate 80
CAS Number	9005-65-6
Quality Test/Release Date	23/Jan/2026
Suggested retest date	23/Jan/2029
Country of Origin	BELGIUM
Declaration of Origin	plant
BSE/TSE	synthetically made product made from sorbitol, palm kernel oil fatty acids and ethylene oxide. Sorbitol is sourced from corn wheat or potatoes. The fatty acids are sourced from palm kernel oil. Ethylene oxide is of chemical synthetic origin.

Result Name	Units	Specifications	Test Value
Appearance (Color)		Clear yellow to amber	Clear amber
Appearance (Form)		Viscous liquid	Viscous liquid
Infrared spectrum		Conforms	Conforms
Water	%	=<3	3
Saponification value	mg KOH/g	45 to 55	49
Acid value	mg KOH/g	=<2	0.4
Hydroxyl value	mg KOH/g	65 to 80	72
Refractive index		1.4700 to 1.4760 (20°C, 589 nm)	1.4727 (20°C, 589 nm)

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.