

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	27614
Lot Number	A0476990
Description	Polyvinylpyrrolidone, average M.W. 3500, K12
CAS Number	9003-39-8
Quality Test/Release Date	16/Oct/2025
Suggested retest date	16/Oct/2028
Country of Origin	UNITED STATES OF AMERICA
Declaration of Origin	synthetic
BSE/TSE	Not directly derived from or manufactured with any animal byproducts in any way (Including but not limited to fermentation or nutrient broth, catalysts, enzymes).

Result Name	Units	Specifications	Test Value
Appearance (Color)		White to yellowish-white	White
Appearance (Form)		Powder or flakes	Powder
Infrared spectrum		Conforms	Conforms
Identification		Passes test	Passes test
Nitrogen (N)	%	11.5 to 12.8 (on anhydrous substance)	12.1 (on anhydrous substance)
Water	%	=<5.0 (K.F.)	3.2 (K.F.)
Heavy metals (as Pb)	ppm	=<10	6
Sulfated ash	%	=<0.1	=<0.02
pH		3.0 to 5.0 (5 % in water)	4.3 (5 % in water)
Aldehyde	%	=<0.05	0.0066
Hydrazine (N2H4)	ppm	=<1	=<1
HPLC	ppm	=<10 1-Vinylpyrrolidin-2-one	0.2 1-Vinylpyrrolidin-2-one
HPLC	%	=<3.0 2-Pyrrolidone	0.01 2-Pyrrolidone
Peroxides	ppm	=<400 (Titanyl sulphate method)	17 (Titanyl sulphate method)
Appearance of solution		(5 % in water at 25°C) Free of haze	(5 % in water at 25°C) Free of haze
Appearance of solution		(Ph. Eur.) Clear and not more intensely colored than ref. B6	(Ph. Eur.) Clear and not more intensely colored than ref. B6
Appearance of solution		(Ph. Eur.) Clear and not more intensely colored than ref. BY6	(Ph. Eur.) Clear and not more intensely colored than ref. BY6
Appearance of solution		(Ph. Eur.) Clear and not more intensely colored than ref. R6	(Ph. Eur.) Clear and not more intensely colored than ref. R6
K-value		10.2 to 13.8 (5 % solids w/v aq. soln.)	12.8 (5 % solids w/v aq. soln.)



Geert Torfs
Supervisor, QC

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.

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.

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