

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 22747 Lot Number A0468894

Description Polyvinylpyrrolidone,average M.W. 1.300.000, K85-95

CAS Number 9003-39-8
Quality Test/Release Date 15/Jan/2025
Suggested retest date 15/Jan/2027
Country of Origin INDIA
Declaration of Origin synthetic

Result Name	Units	Specifications	Test Value
Appearance (Color)		White to cream	White
Appearance (Form)		Powder	Powder
Infrared spectrum		Conforms	Conforms
Nitrogen (N)	%	12 to 12.8	12.2
Water	%	=<5 (K.F.)	4.7 (K.F.)
Heavy metals (as Pb)	ppm	=<10	=<10
Sulfated ash	%	=<0.1	0.03
pH		4 to 7 (5 % in water)	4.2 (5 % in water)
Peroxides	ppm	=<400 (Titanyl sulphate method)	220 (Titanyl sulphate method)
Aldehyde (C2H4O)	%	=<0.05	0.01
Hydrazine (N2H4)	ppm	=<1	=<1
K-value		85 to 95 (1 % w/v solids in water)	86.57 (1 % w/v solids in water)
Impurity	ppm	=<10.0 Vinyl pyrrolidone	5.0 Vinyl pyrrolidone
Identification		Positive	Positive
Appearance of solution		(5 % in water at 25°C) Free of haze(5 % in water at 25°C) Free of haze	
Appearance of solution		(5 % in water at 25°C) Colorless to (5 % in water at 25°C) Colorless to light yellow	
Appearance of solution		European color test (B color): > B6	6 European color test (B color): > B6
Appearance of solution		European color test (BY color): > BY6	European color test (BY color): > BY6

Geert Torfs Supervisor, QC

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