



山东石大胜华化工集团股份有限公司

Shandong Shida Shenghua Chemical Group Co., Ltd.

## Certificate of Analysis

Product Name: Propylene Glycol

Batch Number: 1P03-202106192

Quantity: 17200KGS

Manufacturing Date: Jul, 08, 2021

Expiry Date: Jul, 07, 2022

Item	Unit	Specification	Result
PG content	Wt %	99.50 min	99.92
Moisture	ppm	2000 max	370
Density (20°C)	g/cm <sup>3</sup>	1.035-1.039	1.038
Index of refraction	n <sub>D</sub> 20	1.430-1.434	1.433
Acidity	%	0.02 max	0.002
Distillation range	°C	184-190	185-188
Colourity (Pt-Co)	APHA	10	5
Appearance		Colorless, Viscous, transparent liquid	Colorless, Viscous, transparent liquid

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Conclusion: The product of this batch can match the specification by analysis.

Authorized Signature