

NANTONG KAIKIN PHARMA CHEMICAL CO., LTD.

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CERTIFICATE OF ANALYSIS

Date of report: AUG.15, 2025

Description of Goods: PROPYLENE GLYCOL USP

Batch No. 1P03-202508132

Quantity: 25800KG

Manufacturing date: AUG.13, 2025

Retest date: AUG.12, 2027

Invoice No. 25KX0813

Country of Origin: P.R.CHINA

Item	Specification	Result
Appearance	Colorless, viscous, clear hygroscopic liquid	Complies
Identification	IR conform	Complies
Color (Pt-Co)	≤ 10	5
PG content	$\geq 99.8\%$	99.91%
Density (20°C)	1.035-1.039	1.037
Refraction index, n _D 20	1.431-1.435	1.432
Moisture	$\leq 1000\text{ppm}$	237ppm
Acidity (as Acetic acid)	$\leq 0.01\text{ml}$	0.002ml
Distillation range (IBP-DP)	186-189°C	186-188°C
Iron	$\leq 0.5\text{ppm}$	<0.5ppm
Sulfate	$\leq 10\text{ppm}$	<10ppm
Chloride	$\leq 1\text{ppm}$	<0.5ppm
Heavy metals (as Pb)	$\leq 5\text{ppm}$	<5ppm
Residue on ignition	$\leq 20\text{ppm}$	<20ppm
Residue on ignition	$\leq 0.008\%$	Not detected
Ethylene glycol	$\leq 50\text{ppm}$	Not detected
Diethylene glycol	$\leq 50\text{ppm}$	Not detected

Conclusion: CONFORM TO USP GRADE