



INDOFINE Chemical Company, Inc.

121 Stryker Lane, Bldg. 30, Suite 1 • Hillsborough, NJ 08844 • U.S.A.

Phone: (908) 359-6778 • FAX: (908) 359-1179

website: www.indofinechemical.com

e-mail: chemical@indofinechemical.com

Certificate of Analysis

Catalogue Number	04-2401
Lot Number	001192-00620-0515
Product	L-Pyroglutamic acid
	L-Pyr-OH
	L-5-Oxo-2-pyrrolidinecarboxylic acid
CAS Number	98-79-3
Molecular Formula	C ₅ H ₇ NO ₃
Molecular Weight	129.1

Appearance	White crystalline powder
Melting Point	161.0 °C
Heavy Metals	< 10 ppm
Arsenic (As₂O₂)	< 1 ppm
Anion	Chloride (Cl ⁻): 0.012% Sulfate (SO ₄ ²⁻): 0.005%
Cation	Ammonium (NH ₄): < 0.02% Iron (Fe): < 10 ppm
Optical Rotation	[α] _D ²⁰ = -11.65°
Transmission	98.1%
Loss on Drying	0.20%
Residue On Ignition	0.07%
Assay by titration	99.3%
Storage	Store at RT