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Product Specifications

Catalogue Number	03320
Product	L-γ-Carboxyglutamic acid H-L-Glu(g-COOH)-OH γ -Carboxy-L-glutamic acid
CAS Number	53861-57-7
Molecular Formula	C ₆ H ₉ NO ₆
Molecular Weight	191.1
Appearance	White powder
Solubility	Clear, colorless solution (50 mg/mL in 1N HCl)
Melting Point	176 - 180 °C (dec.)
Elemental Analysis (Theory)	C = 36.4 $\pm$ 0.4%; H = 4.9 $\pm$ 0.4%; N = 7.1 $\pm$ 0.4% Calcd.as x 0.38 H ₂ O (3.5%)
Water Content (Karl Fisher)	$\leq$ 5%
TLC System	n-butanol/Acetic Acid/Water (4:2:2) Isopropanol/Ammonia conc. (1:1) Plate : Silica gel 60 F ₂₅₄ Detected by : UV, ninhydrin, TMB
Optical Rotation	$[\alpha]_D^{24} = 40 \pm 2^\circ$ (C=1 in 6N HCl)
Purity by TLC	$\geq$ 99%
Storage	Store at $\leq -4^\circ\text{C}$

For Laboratory Use Only