

Certificate of Analysis

Date of Testing: 2024-09-13 10:26:56

Date of Next Testing: 2026-09-13 10:26:56

Product Name: **L-Pyroglutamic Acid Methyl Ester**

CAS Number: 4931-66-2

Specifications & Purity: >97.0%(GC)

Lot #: E1731071

SKU #: **M138905**

Version: **0**

Analysis #: **410854**

Storage Temperature: Argon charged

Parameter	Limit Values	Result
Density (20°C)	1.247-1.252	1.25
Specific Rotation [α] _{20/D} (c=1 in EtOH)	9-12 (°)	10.10°
Refractive index n _{20/D}	1.484-1.488	1.48
Purity(GC)	97-100 (%)	97.10 %
Appearance (M138905)	Colorless to Yellow Liquid	Colorless to Yellow Liquid
Proton NMR spectrum	Conforms to Structure	Conforms to Structure



John Su
QA & QC Manager