

## Certificate of Analysis

Date of Testing: 2022-11-03 19:11:31  
Date of Next Testing: 2026-11-02 19:11:31  
Product Name: **DL-Pipecolic Acid**  
CAS Number: 535-75-1  
Specifications & Purity: 97%  
Lot #: K2201669  
SKU #: **P101393**  
**Analysis:** **116432**  
Storage Temperature: Protected from light, Desiccated

Parameter	Limit Values	Result
Purity(Nonaqueous Titration)	97.5-102.5 (%)	99.30%
Purity(GC)	98-100 (%)	98.88%
Melting point	277-282 (°C)	280.67000 °C
Appearance (P101393)	White to Beige Powder and/or Chunks	White to Beige Powder and/or Chunks
Solubility in H <sub>2</sub> O , Colorless to Faint Yellow , Clear , 50 mg/ml H <sub>2</sub> O	pass	Pass
Proton NMR spectrum	Conforms to structure	Conforms to Structure



John Su  
QA & QC Manager