

## Certificate of Analysis

Date of Testing: 2024-07-24 11:38:09  
Date of Next Testing: 2028-07-23 11:38:09  
Product Name: **(+)-Diethyl L-tartrate**  
CAS Number: 87-91-2  
Specifications & Purity: 99%  
Lot #: G2412053  
SKU #: **D120026**  
Version: **0**  
Analysis #: **109478**

Parameter	Limit Values	Result
Specific Rotation [α] <sub>20</sub> /D(c=Neat)	7.5-9.5 (°)	8.62°
Refractive index n <sub>20</sub> /D	1.444-1.448	1.45
Purity(GC)	99-100 (%)	99.43%
Enantiometric Excess	99-100 (%)	99.99%
Density (20°C)	1.205-1.207	1.21
Appearance (D120026)	Colorless to light yellow liquid	Colorless to light yellow liquid
Infrared spectrum	Conforms to Structure	Conforms to Structure



John Su  
QA & QC Manager