

Certificate of Analysis

Date of Testing: 2022-12-02 16:36:32

Date of Next Testing: 2024-12-01 16:36:32

Product Name: **Di-p-toluoyl-L-tartaric acid**

CAS Number: 32634-66-5

Specifications & Purity: $\geq 99.0\%$

Lot #: K2224890

SKU #: **D196348**

Analysis: **135914**

Storage Temperature: Argon charged

Parameter	Limit Values	Result
Purity(Neutralization titration)	98.5-101.5 (%)	98.79 %
Purity(HPLC)	99-100 (%)	99.28800 %
Specific Rotation $[\alpha]_{20/D(c=1 \text{ in EtOH})}$	-143--136 (°)	-142.71 °
Melting point	166-171 (°C)	170.86000 °C
Appearance (D196348)	White to off-white or yellow powder	White to off-white or yellow powder
Proton NMR spectrum	Conforms to Structure	Conforms to Structure



John Su
QA & QC Manager