

Certificate of Analysis

Date of Testing: 2025-06-20 14:36:49
 Date of Next Testing: 2028-06-19 14:36:49
 Product Name: (+)-3-Bromocamphor-8-sulfonic Acid Ammonium Salt
 CAS Number: 14575-84-9
 Specifications & Purity: $\geq 98\%$ (T)
 Lot #: K1907123
 SKU #: B153199
 Version: 0
 Analysis #: 529212
 Storage Temperature: Room temperature, Argon charged

Parameter	Limit Values	Result
Nitrogen by Elemental Analysis	4-4.4 (%)	4.00 %
Purity(Titration by NaOH After Oxygen Combustion)	97.5-102.5 (%)	98.03 %
Specific Rotation $[\alpha]_{20/D}(c=4 \text{ in H}_2\text{O})$	84-87 (°)	85.00 °
Appearance (B153199)	white to beige powder or crystals	white to beige powder or crystals
Proton NMR spectrum	Conforms to Structure	Conforms to Structure



John Su
QA & QC Manager