

## Certificate of Analysis

Date of Testing: 2023-02-27 17:11:46  
Date of Next Testing: 2027-02-26 17:11:46  
Product Name: **(R)-6,6'-Dibromo-2,2'-bis(methoxymethoxy)-1,1'-binaphthyl**  
CAS Number: 179866-74-1  
Specifications & Purity: 98%  
Lot #: B2324428  
SKU #: **R160862**  
Analysis: **135956**

Parameter	Limit Values	Result
Purity(HPLC area)	98-100 (%)	99.74%
Specific rotation [ $\alpha$ ] <sub>20/D(C=1, CHCl<sub>3</sub>)</sub>	20-23 (°)	21.56°
Melting point	133-137 (°C)	134.76000 °C
Appearance(R160862)	White to off-white powder to crystal	White to Off-White Powder to crystal
NMR Spectrum 1H	Conforms to Structure	Conforms to Structure



John Su  
QA & QC Manager