

## Certificate of Analysis

Date of Testing: 2023-09-09 08:47:03

Date of Next Testing: 2026-09-08 08:47:03

Product Name: (R)-(-)-2,2'-Bis[di(3,5-di-t-butyl-4-methoxyphenyl)phosphino]-6,6'-dimethoxy-1,1'-biphenyl

CAS Number: 352655-61-9

Specifications & Purity:  $\geq 97\%$

Lot #: I2305634

SKU # R281804

Version 1

Analysis #: 253927

Storage Temperature: Store at 2-8°C, Protected from light, Argon charged

| Parameter               | Limit Values             | Result                   |
|-------------------------|--------------------------|--------------------------|
| Enantiomeric Excess     | 99-100 (%)               | 99.86600 %               |
| Purity(HPLC area)       | 97-100 (%)               | 99.03 %                  |
| Appearance(R281804)     | White to off-white Solid | White to off-white solid |
| Phosphorus NMR spectrum | conforms to structure    | Conforms to Structure    |
| NMR Spectrum 1H         | Conforms to Structure    | Conforms to Structure    |



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