

# Certificate of Analysis

## Compound Information

**Product Name:** (S)-(-)-2,2-Bis(Diphenylphosphino)-1,1-Binaphthalene  
**CAS No.:** 76189-56-5  
**Cat. No.:** G7544579  
**Molecular Formula:** C<sub>44</sub>H<sub>32</sub>P<sub>2</sub>  
**Molecular Weight:** 622.67

## Batch Information

**Batch No.:** 1521023  
**Test Date:** 2024-09-10  
**Report Date:** 2024-09-11  
**Retest Date:** 2030-03-08  
**Storage:** Store in a cool, dry area.  
**Origin:** China

## Test Item

Test	Specification	Result
Purity	97%+(HPLC),99%ee	97.72%
NMR	Consistent with structure	Consistent with structure
Optical Rotation	-220.0 to -245.0	-229.53

## Conclusion

The product has been tested and complies with the given specifications.

## Signature

Reviewed by :



Reviewed by:



Approved by:

