

# Certificate of Analysis

## Compound Information

**Product Name:** (S)-1-(Diphenylphosphino)-3,3-Dimethyl-2-Butylamine  
**CAS No.:** 286454-86-2  
**Cat. No.:** G7665156  
**Molecular Formula:** C<sub>18</sub>H<sub>24</sub>NP  
**Molecular Weight:** 285.36

## Batch Information

**Batch No.:** 4270082  
**Test Date:** 2023-10-31  
**Report Date:** 2023-11-01  
**Retest Date:** 2029-04-27  
**Storage:** Store in a cool,dry area.  
**Origin:** China

## Test Item

Test	Specification	Result
Purity	98%(HPLC)	99.65%
NMR	Consistent with structure	Consistent with structure
Optical Rotation	148	140.02

## Conclusion

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

## Signature

Reviewed by :

Reviewed by:

Approved by: