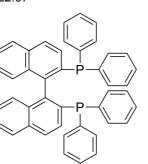




Certificate of Analysis

Compound Information

| Product Name: | (Rac)-BINAP |
|---------------------|-------------------|
| Cat. No.: | 1047644 |
| CAS No.: | 98327-87-8 |
| Molecular Formula: | $C_{44}H_{32}P_2$ |
| Molecular Weight: | 622.67 |
| Chemical Structure: | Í |
| | |



Batch Information

| Batch No.: | Lc0428043 |
|--------------|--|
| Storage: | 2-8°C, protect from light, stored under nitrogen |
| Test Date: | 2019-04-29 |
| Retest Date: | 2022-04-28 |
| Origin: | Shanghai, China |

QC Summary

| Appearance: | White to off-white (Solid) |
|------------------------------|---|
| ¹ H NMR Spectrum: | Consistent with structure |
| Purity (NMR): | ≥95.0% |
| Conclusion: | The product has been tested and complies with the given specifications. |

Caution: Research use only and are not intended for human use.

Tel: 400-821-0725 E-mail: product@leyan.com

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