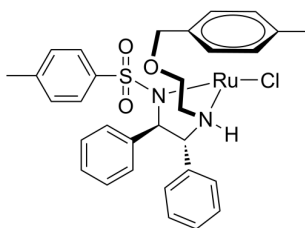


Certificate of Analysis

Compound Information

| | |
|----------------------------|---|
| Product Name: | (R,R)-Ts-DENEB |
| Cat. No.: | 1105790 |
| CAS No.: | 1333981-84-2 |
| Molecular Formula: | C ₃₁ H ₃₃ ClN ₂ O ₃ RuS |
| Molecular Weight: | 650.19 |
| Chemical Structure: | |



Batch Information

| | |
|---------------------|--|
| Batch No.: | L332013 |
| Storage: | 2-8°C, protect from light, stored under nitrogen |
| Test Date: | 2024-01-15 |
| Retest Date: | 2027-01-14 |
| Origin: | Shanghai, China |

QC Summary

| QC Summary | Specification | Result |
|---|---|---------------------------|
| Appearance: | Yellow to brown (Solid) | Brown (Powder) |
| ¹H NMR Spectrum: | Consistent with structure | Consistent with structure |
| Structure Identification(Proton NMR Spectrum),ω/%: | Conforms | Conforms |
| Ruthenium(Ru),ω/%: | 12-14 | 14 |
| Moisture,ω/%: | ≤1 | 0.5 |
| Residual Solvent (3-Methoxy-1-Propanol),ω/%: | ≤3 | 0.9 |
| Residual Solvent (MIBK),ω/%: | ≤1 | 0.6 |
| Residual Solvent (Heptane),ω/%: | ≤1 | Conforms |
| 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

Address: No. 1999 Zhangheng Road, Building 3, Zhangjiang High-Tech Park, Shanghai