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## Specification Sheet

Product Name: **(R)-(-)-4,12-Bis(diphenylphosphino)-[2.2]-paracyclophane**  
Specifications & Purity: **97%**  
SKU #: **R281880**

### Parameter

Appearance(R281880)  
NMR Spectrum 1H  
Phosphorus NMR spectrum  
Purity(HPLC area)  
Specific rotation [ $\alpha$ ]<sub>20/D</sub> (C=1% , Chloroform)

### Limit Values

White to Tan Powder or Crystals  
Conforms to structure  
conforms to structure  
97-100 (%)  
-38.0 ~ -30 (°)

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