

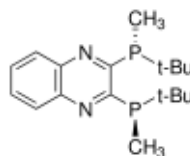
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## Product Specification

Product Name:  
(R,R)-(-)-2,3-Bis(tert-butylmethylphosphino)quinoxaline - ≥95%

**Product Number:** 676403  
**CAS Number:** 866081-62-1  
**MDL:** MFCD09265091  
**Formula:** C<sub>18</sub>H<sub>28</sub>N<sub>2</sub>P<sub>2</sub>  
**Formula Weight:** 334.38 g/mol



### TEST

### Specification

Appearance (Color)

Conforms to Requirements

White to Orange to Tan

Appearance (Form)

Powder or Crystals

Infrared spectrum

Conforms to Structure

Carbon

61.4 - 67.9 %

Nitrogen

8.0 - 8.8 %

Purity (HPLC)

≥ 95.0 %

Optical Rotation

-57.0 - -49.0 deg

c = 1%; Chloroform

Specification: PRD.1.ZQ5.10000005151

Sigma-Aldrich warrants, that at the time of the quality release or subsequent retest date this product conformed to the information contained in this publication. The current Specification sheet may be available at [Sigma-Aldrich.com](http://Sigma-Aldrich.com). For further inquiries, please contact Technical Service. Purchaser must determine the suitability of the product for its particular use. See reverse side of invoice or packing slip for additional terms and conditions of sale.