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## Certificate of Analysis

Product Name:

(R)-H<sub>8</sub>-BINAP - ≥94%

Product Number:

692387

Lot Number:

MKBK6263

Brand:

ALDRICH

CAS Number:

139139-86-9

MDL Number:

MFCD01630795

Formula:

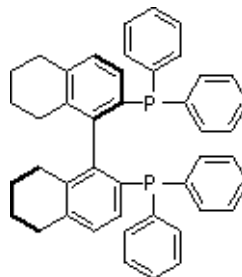
C<sub>44</sub>H<sub>40</sub>P<sub>2</sub>

Formula Weight:

630.74 AMU

Quality Release Date:

30 APR 2012



Test	Specification	Result
Appearance (Color)	White to Beige	white
Appearance (Form)	Powder or Crystals	Powder
Infrared spectrum	Conforms to Structure	Conforms
Phosphorus NMR Spectra	Conforms to Structure	Conforms
Optical Rotation	69.0 - 79.0 deg	72.3 deg
c = 0.5%; Toluene		
Purity (HPLC)	≥ 94.0 %	96.1 %
Supplier Information	All Catalog Values	Accept
Product of TAKASAGO International Corporation		

Jamie Gleason, Manager  
Quality Control  
Milwaukee, Wisconsin US

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. 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.