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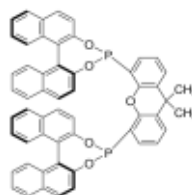
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## Product Specification

Product Name:  
(11bS,11'bS)-4,4'-(9,9-Dimethyl-9H-xanthene-4,5-diyl)bis-dinaphtho[2,1-d:1',2'-f][1,3,2]dioxaphoshepin

**Product Number:** 682869  
**CAS Number:** 349114-57-4  
**Formula:** C<sub>55</sub>H<sub>36</sub>O<sub>5</sub>P<sub>2</sub>  
**Formula Weight:** 838.82 g/mol



TEST	Specification
Appearance (Color)	White to Tan
Appearance (Form)	Conforms to Requirements
Powder, Crystals and/or Chunks	
Proton NMR spectrum	Conforms to Structure
Phosphorus NMR Spectra	Conforms to Structure
Carbon	76.0 - 81.5 %
Optical Rotation	-275.0 - -235.0 deg
c = 1%; Chloroform	

Specification: PRD.0.ZQ5.10000054151

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.