

CERTIFICATE OF ANALYSIS

The Power to Question

Catalog Number: sc-255511 Lot Number: SAMPLE

Product Name: (R)-3,3'-Bis(9-anthracenyl)-1,1'-binaphthyl-2,2'-diyl hydrogenphosphate

CAS Number: 361342-51-0 Molecular Formula: $C_{48}H_{29}O_4P$ Molecular Weight: 700.72

Test	Specification	Result
Appearance	White to yellow solid, powder, crystals	Light yellow powder
Identification (¹ H-NMR)	Complies with structure	Complies
Identification (¹³ C-NMR)	Complies with strcuture	Complies
Identification (³¹ P-NMR)	Complies with structure	Complies
Identification (Infrared Spectrum)	Complies with structure	Complies
Purity (HPLC)	≥ 94.0 %	99.9 %
Melting Point		290.0 °C
Optical Rotation	+123.0 ± 7 °	+123.2 °
Carbon	77.3 - 87.2 %	77.75 %

Satisfaction Guarantee: We appreciate your business and are committed to providing the highest level of quality and service. Any product that does not meet the performance standards indicated in our product literature will be replaced at no charge. Our policy is valid for one year from the date of your purchase.