

# Chem-Impex International, Inc.

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825 Dillon Drive

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## Certificate of Analysis

<b>Catalogue Number</b>	41162
<b>Lot Number</b>	002953-414965516201
<b>Product</b>	<b>(R,R)-1,2-Bis[(2-methoxyphenyl)</b> (R,R)-Ethylenebis[(2-methoxyphenyl)phenylphosphine]
<b>CAS Number</b>	55739-58-7
<b>Molecular Formula</b>	C <sub>28</sub> H <sub>28</sub> O <sub>2</sub> P <sub>2</sub>
<b>Molecular Weight</b>	458.48

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<b>Appearance</b>	White powder
<b>Melting Point</b>	103.1 - 103.6 °C
<b>Optical Rotation</b>	[α] <sup>20</sup> <sub>D</sub> = -85.7 ° (C = 0.62 in CHCl <sub>3</sub> )
<b><sup>1</sup>H NMR</b>	Conforms to structure
<b><sup>31</sup>P NMR</b>	Conforms to structure
<b>Purity</b>	> 98% (31P NMR)
<b>Storage</b>	Store at RT
<b>Remarks</b>	See material safety data sheet for additional information For laboratory use only

The foregoing is a copy of the Certificate of Analysis as provided by our supplier



**Bala Kumar**  
**Quality Control Manager**