

# Chem-Impex International, Inc.

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## Certificate of Analysis

<b>Catalogue Number</b>	40731
<b>Lot Number</b>	002934-4369211025-0
<b>Product</b>	<b>(S)-(-)-2-Diphenylphosphino-2'-methoxy-1,1'-</b> (S)-(2'-Methoxy-[1,1'-binaphthalen]-2-yl)diphenylphosphane (S)-(-)-MOP
<b>CAS Number</b>	134484-36-9
<b>Molecular Formula</b>	C <sub>33</sub> H <sub>25</sub> OP
<b>Molecular Weight</b>	468.54

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<b>Appearance</b>	White powder
<b>Solubility</b>	Almost soluble in toluene
<b>Melting Point</b>	176 - 179 °C
<b>Optical Rotation</b>	[α] <sup>20</sup> <sub>D</sub> = -92.4 ° (C = 0.3 in CHCl <sub>3</sub> )
<b>Residual Solvents</b>	< 0.50%
<b><sup>1</sup>H NMR</b>	Conforms to structure
<b><sup>31</sup>P NMR</b>	Conforms to structure
<b>Purity by HPLC</b>	99.2%
<b>Storage</b>	Store at ≤ -4 °C
<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