

# Chem-Impex International, Inc.

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## Certificate of Analysis

<b>Catalogue Number</b>	39571
<b>Lot Number</b>	002089-20220306-21
<b>Product</b>	<b>(1S,2R)-N<sup>1</sup>-(tert-Butoxycarbonyl)-1,2-</b> (1S,2R)-N <sup>1</sup> -Boc-1,2-cyclohexanediamine
<b>CAS Number</b>	365996-30-1
<b>Molecular Formula</b>	C <sub>11</sub> H <sub>22</sub> N <sub>2</sub> O <sub>2</sub>
<b>Molecular Weight</b>	214.31

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<b>Appearance</b>	Colorless liquid
<b>Optical Rotation</b>	[α] <sub>D</sub> <sup>20</sup> = -5.6 ° (C=1 in CH <sub>2</sub> Cl <sub>2</sub> )
<b><sup>1</sup>H NMR</b>	Conforms to structure
<b>Other Enantiomer</b>	0.5%
<b>Purity by GC</b>	99.4%
<b>Chiral Purity</b>	99.5% (ee) (LC)
<b>Storage</b>	Store at 2 - 8 °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