

# *Chem-Impex International, Inc.*

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## *Product Specifications*

<b>Catalogue Number</b>	02213
<b>Product</b>	<b><i>N<sup>ε</sup>-Z-L-Lysine tert-butyl ester hydrochloride</i></b> L-Lys(Z)-OtBu•HCl
<b>CAS Number</b>	5978-22-3
<b>Molecular Formula</b>	C <sub>18</sub> H <sub>28</sub> N <sub>2</sub> O <sub>4</sub> •HCl
<b>Molecular Weight</b>	372.89

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<b>Appearance</b>	White to off-white powder
<b>Solubility</b>	Clear solution (0.1 g in 2 mL Water)
<b>Melting Point</b>	140 - 150 °C
<b>Water Content (Karl Fisher)</b>	≤ 1%
<b>Optical Rotation</b>	[α] <sub>D</sub> <sup>20</sup> = 13.5 ± 1.5 ° (C=2 in EtOH)
<b>Infrared Spectrum</b>	Conforms to structure
<b>Analysis by Mass Spectra</b>	Conforms to standard
<b>Loss on Drying</b>	≤ 1% (60 °C, 2h)
<b>Chiral HPLC</b>	≥ 99.5% (ee)
<b>D-Enantiomer</b>	≤ 0.5%
<b>Purity by HPLC</b>	≥ 98%
<b>Storage</b>	Store at 0 - 8 °C

**For Laboratory Use Only**