

# Chem-Impex International, Inc.

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## Product Specifications

<b>Catalogue Number</b>	04446
<b>Product</b>	<b>D-Proline <i>tert</i>-butyl ester hydrochloride</b>  D-Pro-OtBu•HCl  ( <i>R</i> )-Pyrrolidine-2-carboxylic acid <i>tert</i> -butyl ester hydrochloride
<b>CAS Number</b>	184719-80-0
<b>Molecular Formula</b>	C <sub>9</sub> H <sub>17</sub> NO <sub>2</sub> •HCl
<b>Molecular Weight</b>	207.7
<b>Appearance</b>	White to off-white powder
<b>Solubility</b>	Clear solution (0.3 g in 2 mL H <sub>2</sub> O)
<b>Melting Point</b>	107-113 °C
<b>Water Content (Karl Fisher)</b>	≤ 1.0%
<b>Optical Rotation</b>	[α] <sub>D</sub> <sup>20</sup> = +30 ± 2° (C=1 in H <sub>2</sub> O)
<b>Infrared Spectrum</b>	Conforms to structure
<b>Analysis by Mass Spectra</b>	Conforms to standard
<b>Loss on Drying</b>	≤ 1.0% (60 °C, 2h)
<b><sup>1</sup>H NMR</b>	Conforms to structure
<b>Purity by HPLC</b>	≥ 99%
<b>Storage</b>	Store at 0-8 °C

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**For Laboratory Use Only**