

# Chem-Impex International, Inc.

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**Tel:** (630) 766-2112

**E-mail:** sales@chemimpex.com

**Shipping and Correspondence:**

935 Dillon Drive

Wood Dale, IL 60191

**Fax:** (630) 766-2218

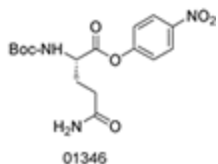
**Web site:** www.chemimpex.com

**Manufacturing site:**

825 Dillon Drive

Wood Dale, IL 60191

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## Product Specifications

<b>Catalogue Number</b>	01346
<b>Product</b>	<b>Boc-L-glutamine 4-nitrophenyl ester</b>
	Boc-L-Gln-ONp
<b>CAS Number</b>	15387-45-8
<b>Molecular Formula</b>	C <sub>16</sub> H <sub>21</sub> N <sub>3</sub> O <sub>7</sub>
<b>Molecular Weight</b>	367.4

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<b>Appearance</b>	White powder
<b>Solubility</b>	Clear solution (0.3g in 2 ml DMF)
<b>Melting Point</b>	142-148 °C
<b>Water Content (Karl Fisher)</b>	≤ 2.0%
<b>Optical Rotation</b>	[α] <sub>D</sub> <sup>20</sup> = -33 ± 2° (C=1 in DMF)
<b>Infrared Spectrum</b>	Conforms to structure
<b>Analysis by Mass Spectra</b>	Conforms to standard
<b>Loss on Drying</b>	≤ 1% (70 °C, 2 hr)
<b><sup>1</sup>H NMR</b>	Conforms to structure
<b>Purity by HPLC</b>	≥ 98%
<b>Storage</b>	Store at 0-8 °C

**For Laboratory Use Only**