

# Chem-Impex International, Inc.

---

**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

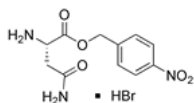
**Manufacturing site:**

825 Dillon Drive

Wood Dale, IL 60191

---

## Product Specifications



<b>Catalogue Number</b>	11999
<b>Product</b>	<b>H-Asn-<i>n</i>-nitrobenzyl ester • HBr</b> ( <i>S</i> )-4-Nitrobenzyl 2,4-diamino-4-oxobutanoate hydrobromide
<b>CAS Number</b>	3561-57-7
<b>Molecular Formula</b>	C <sub>11</sub> H <sub>13</sub> N <sub>3</sub> O <sub>5</sub> •HBr
<b>Molecular Weight</b>	348.15

---

<b>Appearance</b>	Off-white powder
<b>Solubility</b>	Clear, colorless solution (50 mg/ml in methanol)
<b>Melting Point</b>	166-170 °C
<b>Elemental Analysis (Theory)</b>	C=38.0%; H=4.1%; N=12.1% Calc. x 1 HBr (23.2%)
<b>TLC System</b>	Chloroform/methanol/acetic acid 32% 5/3/1 n-butanol/acetic acid/water 4/2/2 Ethylacetate/pyridine/acetic acid/water 60/20/6/11 plate: silicagel 60 F <sub>254</sub> detected by: UV, ninhydrin, TMB
<b>Optical Rotation</b>	[α] <sub>D</sub> <sup>24</sup> = + 5.0 ° (C=2 in DMF)
<b>Titration</b>	≤ 24% Bromide content (AgNO <sub>3</sub> )
<b>Purity by TLC</b>	≥ 98%
<b>Storage</b>	Store at 0 - 8 °C

**For Laboratory Use Only**