

# Chem-Impex International, Inc.

Tel: (630) 766-2112

E-mail: [sales@chemimpex.com](mailto:sales@chemimpex.com)

Shipping and Correspondence:

935 Dillon Drive

Wood Dale, IL 60191

Fax: (630) 766-2218

Web site: [www.chemimpex.com](http://www.chemimpex.com)

Manufacturing site:

825 Dillon Drive

Wood Dale, IL 60191

---

## Certificate of Analysis

<b>Catalog Number</b>	02189
<b>Product Name</b>	Z-His(Bzl)-OH N <sup>α</sup> -(Benzyloxycarbonyl)-N <sup>imm</sup> -benzyl-L-histidine
<b>Lot Number</b>	535084
<b>CAS Registry Number</b>	20794-07-4
<b>Molecular Formula</b>	C <sub>21</sub> H <sub>21</sub> N <sub>3</sub> O <sub>4</sub>
<b>Molecular Weight</b>	379.4
<b>Melting Point</b>	215-217 °C
<b>Appearance</b>	White powder
<b>Specific Rotation (α<sup>20</sup><sub>D</sub>)</b>	-17.6° (c=1, HCl)
<b>Elemental Analysis (Found)</b>	C 66.15%, H 5.45%, N10.94%
<b>Elemental Analysis (theory)</b>	C 66.48%, H 5.58%, N11.07%
<b>Assay (TLC)</b>	Purity by TLC >99%
<b>Ethylacetate/Pyridine/Acetic acid /H<sub>2</sub>O 60/20/6/11(v/v/v/v)</b>	Detected by UV, Ninhydrin, chlorine-tolidine.
<b>n-Butanol/Acetic acid/H<sub>2</sub>O 4/2/2 (v/v/v)</b>	
<b>CHCl<sub>3</sub>:MeOH:AcOH 32% 5/3/1 (v/v/v)</b>	
<b>Plate Silicagel 60 F<sub>254</sub></b>	
<b>Remarks</b>	See material safety data sheets for additional information. For laboratory use only.

The foregoing is a copy of the Certificate of Analysis as provided by our supplier



**Sashi Kumar**  
**Quality Control Manager**