

# *Chem-Impex International, Inc.*

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## *Product Specifications*

|                          |   |
|--------------------------|---|
| <b>Catalogue Number</b>  | 05474   |
| <b>Product</b>           | <b><i>N</i><sup>α</sup>-Boc-<i>N</i><sup>ω,ω'</sup>-bis-<i>Z</i>-<i>D</i>-arginine</b><br>Boc-D-Arg(Z) <sub>2</sub> -OH |
| <b>CAS Number</b>        | 145881-13-6   |
| <b>Molecular Formula</b> | C <sub>27</sub> H <sub>34</sub> N <sub>4</sub> O <sub>8</sub>   |
| <b>Molecular Weight</b>  | 542.6   |

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|                                    |   |
|------------------------------------|---|
| <b>Appearance</b>                  | White to off-white powder                             |
| <b>Solubility</b>                  | Clear solution (0.1 g in 2 mL DMF)                    |
| <b>Melting Point</b>               | 133 - 139 °C  |
| <b>Water Content (Karl Fisher)</b> | ≤ 1%  |
| <b>Optical Rotation</b>            | [α] <sup>20</sup> <sub>D</sub> = 4 ± 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% (50 °C, 2h)                                      |
| <b><sup>1</sup>H NMR</b>           | Conforms to structure                                 |
| <b>Purity by HPLC</b>              | ≥ 98%   |
| <b>Storage</b>                     | Store at ≤ -4 °C                                      |

**For Laboratory Use Only**