

# 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>  | 43348                                                                                                                  |
| <b>Product</b>           | <b>Benzyl 3-oxopiperazine-1-carboxylate</b><br>1-Cbz-3-oxopiperazine<br>3-Oxopiperazine-1-carboxylic acid benzyl ester |
| <b>CAS Number</b>        | 78818-15-2                                                                                                             |
| <b>Molecular Formula</b> | C <sub>12</sub> H <sub>14</sub> N <sub>2</sub> O <sub>3</sub>                                                          |
| <b>Molecular Weight</b>  | 234.26                                                                                                                 |

---

|                          |                                              |
|--------------------------|----------------------------------------------|
| <b>Warnings</b>          | <i>Air Sensitive! Store under inert gas!</i> |
| <b>Synonym 3</b>         | 1-Carbobenzoxy-3-oxopiperazine               |
| <b>Synonym 4</b>         | 1-Benzylloxycarbonyl-3-oxopiperazine         |
| <b>Appearance</b>        | White to orange to green crystalline powder  |
| <b>Melting Point</b>     | 117 - 121 °C                                 |
| <b>Infrared Spectrum</b> | Conforms to structure                        |
| <b><sup>1</sup>H NMR</b> | Conforms to structure                        |
| <b>Purity by HPLC</b>    | ≥ 98%                                        |
| <b>Purity</b>            | ≥ 98%                                        |
| <b>Storage</b>           | Store at RT                                  |

**For Laboratory Use Only**