

# *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*

|                          |  |
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| <b>Catalogue Number</b>  | 36985  |
| <b>Product</b>           | <b>S-Benzoylthiamine O-monophosphate</b><br>Benfotiamine         |
| <b>CAS Number</b>        | 22457-89-2   |
| <b>Molecular Formula</b> | C <sub>19</sub> H <sub>23</sub> N <sub>4</sub> O <sub>6</sub> PS |
| <b>Molecular Weight</b>  | 466.45   |

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|---------------------------|--|
| <b>Appearance</b>         | White to off-white crystalline powder  |
| <b>Solubility</b>         | Clear colorless to pale yellow liquid (50 mg/mL solution, pyridine:water, 1:1) |
| <b>Heavy Metals</b>       | ≤ 20 ppm   |
| <b>Anion</b>              | Chloride : ≤ 0.05%<br>Sulfate : ≤ 100 ppm                                      |
| <b>Infrared Spectrum</b>  | Conforms to structure  |
| <b>Loss on Drying</b>     | ≤ 1.5% (at 80 °C, 3 hrs)   |
| <b>Related Substances</b> | Benzoic acid : ≤ 1%<br>Thiamine : ≤ 0.5%<br>Total impurities : ≤ 1.5%          |
| <b>Purity by HPLC</b>     | 98 - 102%  |
| <b>Storage</b>            | Store at 2 - 8 °C  |

**For Laboratory Use Only**