

# 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

---

## Certificate of Analysis

<b>Catalogue Number</b>	21510
<b>Lot Number</b>	000156-13501
<b>Product</b>	<b>Spermidine phosphate hexahydrate</b>  Dispermidine triphosphate hexahydrate  <i>N</i> -(3-Aminopropyl)-1,4-butanediamine phosphate hexahydrate
<b>CAS Number</b>	23273-82-7
<b>Molecular Formula</b>	$2C_7H_{19}N_3 \cdot 6H_2O \cdot 3H_3O_4P$
<b>Molecular Weight</b>	692.57

---

<b>Appearance</b>	White crystalline powder
<b>Solubility</b>	Colorless solution (1% in Water)
<b>Turbidity</b>	0.7 NTU (1% solution in Water)
<b>Melting Point</b>	201 °C
<b>Water Content (Karl Fisher)</b>	16.2%
<b>Infrared Spectrum</b>	Conforms to reference
<b>Assay by titration</b>	101.5% (Calculated for Hexahydrate)
<b>Storage</b>	Store at $\leq -4$ °C
<b>Remarks</b>	See material safety data sheet for additional information  For laboratory use only

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



**Bala Kumar**  
Quality Control Manager