

# 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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## Certificate of Analysis

<b>Catalogue Number</b>	09663
<b>Lot Number</b>	000127-1028495
<b>Product</b>	<b>Oxythiamine•HCl</b>
	5-[2-Hydroxyethyl]-3-[4-hydroxy-2-methyl-5-pyrimidinylmethyl]-4-methylthiazolium chloride hydrochloride
<b>CAS Number</b>	136-16-3
<b>Molecular Formula</b>	C <sub>12</sub> H <sub>15</sub> N <sub>3</sub> O <sub>2</sub> S•HCl

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<b>Appearance</b>	White powder
<b>Solubility</b>	Clear, colorless solution (50 mg/ml in methanol)
<b>Elemental Analysis (Found)</b>	C = 42.7%; H = 5.0%; N = 12.4%
<b>TLC System</b>	n-butanol / acetic acid / water 4/2/2 ethylacetate / pyridine / acetic acid / water 60/60/12/36 isopropanol / ammonia conc. 1/1 methanol / chloroform / ammonia 17% 2/2/1 Plate: Silicagel 60 F <sub>254</sub> Detected by : UV, ninhydrin, chlorine-tolidine, ammoniummolybdate
<b>Titration</b>	20.8% (Chloride content)
<b>Assay</b>	99.8% (By elemental analysis, Nth 12.42%, Nfd 12.39%)
<b>Purity by TLC</b>	95%
<b>Storage</b>	Store at 0-8°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