

# 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>	03051
<b>Lot Number</b>	000127-1000042560
<b>Product</b>	<b>S-tert-Butylthio-L-cysteine</b> L-Cys(StBu)-OH
<b>CAS Number</b>	30044-51-0
<b>Molecular Formula</b>	C <sub>7</sub> H <sub>15</sub> NO <sub>2</sub> S <sub>2</sub>
<b>Molecular Weight</b>	209.3

---

<b>Appearance</b>	White powder
<b>Appearance of Solution</b>	Clear, colorless solution (50 mg/mL in acetic acid 80%)
<b>Elemental Analysis (Found)</b>	C = 38.6%; H = 7%; N = 6.4% Calc as x 0.5 H <sub>2</sub> O (4.13%)
<b>Water Content (Karl Fisher)</b>	4.4%
<b>TLC System</b>	Chloroform/Methanol/Acetic Acid/water (60:45:14:6) Chloroform/Methanol/Acetic Acid 32% (5:3:1) Chloroform/Acetic Acid (95:5) plate: silicagel 60 F <sub>254</sub> detected by: UV, ninhydrin, chlorine-tolidine
<b>Optical Rotation</b>	[α] <sub>D</sub> <sup>24</sup> = -84.4 ° (C = 1% in 1N HCl)
<b>Assay</b>	96.2% (Cfd 38.63% by Elemental Analysis)
<b>D-Enantiomer</b>	0.5%
<b>Purity by TLC</b>	> 99%
<b>Chiral Purity</b>	99.5% (ee)
<b>Storage</b>	Store at 0 - 8 °C

# *Certificate of Analysis*

Catalog Number: 03051

Lot Number: 000127-1000042560

---

**Remarks**

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**