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

| Catalogue Number | 23759 |
|--------------------------------|---|
| Product | Cyclohexanesulfonyl chloride |
| Lot Number | 001588-0623-2184-020 |
| | Cyclohexylsulfonyl chloride |
| CAS Number | 4837-38-1 |
| Molecular Formula | $C_6H_{11}ClO_2S$ |
| Molecular Weight | 182.67 |
| Appearance | Colorless clear liquid |
| Water Content (Karl Fisher) | 0% |
| Analysis by Mass Spectra | Conforms to standard |
| Titration | Calc: 19.43% (Chloride Content) Found: 19.74% |
| ¹ H NMR | Conforms to structure |
| Assay by titration | >98% |
| Storage | Store at 0-8 °C |
| 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

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Bala Kumar Quality Control Manager