

# 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** 00522  
**Product** **Guanidine thiocyanate**

**Lot Number** 001237-161  
Guanidine isothiocyanate  
Guanidinium thiocyanate

**CAS Number** 593-84-0  
**Molecular Formula**  $\text{CH}_5\text{N}_3\cdot\text{HSCN}$

**Molecular Weight** 118.16

---

**Appearance** White crystalline powder

**Solubility** Clear and colorless solution (6M in Water)

**Melting Point** 118-120 °C

**Cation** Ammonium ( $\text{NH}_4^+$ ): < 0.1%  
Iron (Fe): < 0.1 ppm

**Water Content (Karl Fisher)** 0.3%

**UV Ratios** Absorbance (6M solution in H<sub>2</sub>O) @ 280nm: 0.43  
Absorbance (6M solution in H<sub>2</sub>O) @ 300nm: 0.06  
Absorbance (6M solution in H<sub>2</sub>O) @ 320nm: 0.03  
Absorbance (6M solution in H<sub>2</sub>O) @ 410 nm: 0.02

**Ash** < 0.1%

**Assay by titration** 99.6%

**Grade** Biotech

**Application** It is a chaotropic agent and most commonly used in the extraction of DNA and RNA.  
It prevents the activity of RNase and DNase enzymes by denaturing them.

**Storage** Store at RT

# *Certificate of Analysis*

Catalog Number: 00522

Lot Number: 001237-161

---

**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**