FT-018380

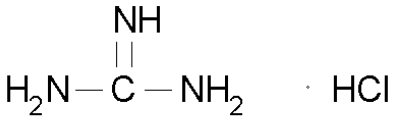
Guanidine Hydrochloride

Product Description

Reference: UP018380

Chemical name: Guanidine Hydrochloride

Molecular Formula: $CH_5N_3.HCl$



CAS : 50-01-1

Molecular Weight : 95.53

Storage: Room temperature(R)

Directions for use Scientific and technical information Other information

Specifications - Typical values

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Test	Specification
Appearance:	White crystalline solid
Purity	min. 99.5%
Solubility (6M, Water)	Pass
Abs. 260nm (6M, Water)	max. 0.03
Abs. 230nm (6M, Water)	max. 0.22
Heavy metals:	<10ppm
Iron	max. 0.0005%
Lead	max. 0.0005%
Arsenic	max. 0.0005%
Ammonium chloride:	0.1%
Water content:	0.21%
Ash:	0.03%

Melting Point min. 181°C, max. 187°C

Directions for use

Handling and Storage

Store at room temperature. Reach room temperature before opening, avoiding strong light and moisture.
May agglomerate upon storage. The quality of the product does not appear to be affected and solutions prepared from the free-flowing and lumpy guanidine hydrochloride appear identical.

The maximum solubility of guanidine hydrochloride in water at room temperature is approximately 6M.
To make an 8M solution in water, one must heat the solution to 35 °C for approximately 30 minutes.

Applications and Guidelines for use

Guanidine is a strong chaotropic agent useful for the denaturation and subsequent refolding of proteins. This denaturant can solubilize insoluble or denatured proteins such as inclusion bodies. This can be used as the first step in refolding proteins or enzymes into their active form. Urea and dithiothreitol (DTT) may also be necessary.

Guanidine hydrochloride is used popularly in RNA isolation to dissociate nucleoproteins and inhibit RNase.

Regulatory information

●Hazard mentions **(European directives (EC) No 1272/2008 (and as amended)))**
Hazard Word & Code:

(SGH07)
Toxic, Irritating, sensibilizing, narcotic
Toxique, irritant, sensibilisant, narcotique

*Classification according to Regulation (EC) n°1272/2008
Acute toxicity, Oral (Category4), H302
Acute toxicity , Inhalation (Category4), H332
Skin irritation (Category2), H315
Eye irritation (Category2), H319
For the full text of the H-Statements mentioned in this Section, seeSection16

*Signal word: Warning

Hazard Statement(s) & code H:

H302+H332	Harmful if swallowed or if inhaled H315Causesskinirritation.
H319	Causes serious eye irritation.

Precautionary Statement(s) & code P:

P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P280	Wear eye protection/face protection.
P301+P312+P330	IF SWALLOWED:Call a POISON CENTER/doctor if you feel unwell. Rinse mouth.
P304+P340+P312	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313	If eye irritation persists: Get medical advice/attention

●Hazard mentions (Directive 1999/45/EC or 98/24/EC(and as amended)
Hazard Code: Xn
Nocif en cas d'ingestion
Risk Statement (code R):
R22-R36/37/38
Safety & Prudence Statement (code S):
S36/37/39

●Disclaimer
Materials from Uptima are sold **for research use only**, and are not intended for food, drug, household, or cosmetic uses. Uptima is not liable for any damage resulting from handling or contact with this product.

●Transport: **UN : none**

Related / associated products and documents

FT-036291 EDTA and EGTA chelating agents
PH-BC001a Biochemicals
See Product hightlights, catalogue
See Biosciences Innovation and e-search tool.

Ordering information

Catalog size quantities and prices may be found at http://www.interchim.com.
Please inquire for higher quantities (availability, shipment conditions).

For any information, please ask : Uptima / Interchim; Hotline : +33(0)4 70 03 73 06

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