

GUANIDINE HYDROCHLORIDE

CAS #: 50-01-1

Formula: $\text{NH}_2\text{C}(\text{NH})\text{NH}_2 \cdot \text{HCl}$

F.W.: 95.53 g/mol

GHCL-5223
BIO ULTRA GRADE

ANALYSIS		SPECIFICATIONS
Absorbance (6M)	260nm	≤ 0.04 a.u.
	280nm	≤ 0.02 a.u.
Ammonium Chloride		$\leq 1.0\%$
Appearance and Color		White Crystals
Assay, Dried Basis		$\geq 99.5\%$
Melting Range		183 - 188°C
pH (6M)		4.0 – 6.0
Residue on Ignition		$\leq 0.02\%$
Solubility (6M)		Passes Test
Water Insoluble Substances		$\leq 0.02\%$
Water, KF		$\leq 0.3\%$

General Product Overview

Guanidine Hydrochloride is a strong protein denaturant that functions as a chaotropic agent. As a denaturant, it acts to unfold proteins and turn them into their original polypeptide chains. As a chaotropic agent, it breaks down the structure of proteins. Guanidine Hydrochloride is commonly used in the purification of RNA by dissociating the RNA into its nucleic acids and protein forms. At higher concentrations, Guanidine Hydrochloride decreases enzyme activity. It is also used to increase the solubility of hydrophobic molecules.

Industry Application

Suitable for use in biological and biotech chemical process applications from R&D through scale production.

Key Product Features

- Appears as white crystals
- Contains no known major food allergens (as defined by FDA and WHO)
- The final product and its raw materials are not derived from nor come into contact with animal parts, animal products, and/or animal byproducts or derivatives.
- Is not subject to genetic modification
- Synonyms: Guanidine Monohydrochloride; Guanidinium Chloride; Guanidinium Hydrochloride

Storage and Shipping Conditions

Please inquire for information regarding shelf-life.

Standard Shelf-Life Policy

Refer to SDS.

Package Sizes

1kg, 5kg, 10kg, 25kg, and 50kg

[Click here to view SDS, CoAs and other supporting regulatory documents on our website.](#)

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