



## Specification

### Guanidine Hydrochloride 99.5%

<b>Catalog Number:</b>	GH1001
<b>CAS Number:</b>	50-01-1
<b>Synonym(s)</b>	Aminoformamidine hydrochloride, Aminomethanamidine hydrochloride, Guanidinium chloride
<b>Molecular Formula:</b>	CH <sub>5</sub> N <sub>3</sub> •HCl
<b>Molecular Weight:</b>	95.53
<b>Storage:</b>	15°C – 30°C
<b>Retest Period:</b>	Three years from date of manufacture

Test	Specification
Appearance	White crystalline powder
Assay (by Titration)	≥ 99.5%
Identification (by IR)	To meet requirements
Melting Point	185.0°C – 188.0°C
pH(1:10 dilution in H <sub>2</sub> O@25°C)	5.0 – 7.0
Solubility (6M solution in H <sub>2</sub> O)	Clear & colorless
Absorbance (6M solution in H <sub>2</sub> O)	
230nm	≤ 0.14
240nm	≤ 0.05
260nm	≤ 0.03
Moisture (LOD, 3h @ 110°C)	≤ 1.0%
Ash	≤ 0.05%
Heavy Metals (Pb)	≤ 0.5 ppm
Copper (Cu)	≤ 1 ppm
Iron (Fe)	≤ 1 ppm
Zinc (Zn)	≤ 1 ppm
DNase	None detected
RNase	None detected
Protease	None detected

Approved:

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