

## Technical Information

### Glycine

Meets USP 41-NF 36, EP 9.0, JP 17 and BP 2016 testing specifications

**Product Code:TC1075M**

### Product Information

Product Code	: TC1075M
Product Name	: Glycine, Meets USP 41-NF 36, EP 9.0, JP 17 and BP 2016 testing specifications
Synonym	: -
Molecular Formula	: $\text{NH}_2\text{CH}_2\text{COOH}$
Molecular Weight	: 75.07
CAS No.	: 56-40-6

### Technical Specification

Appearance	: White crystals or crystalline powder
Solubility	: Freely soluble in water, very slightly soluble in alcohol and in ether
pH (5% in water at 25°C)	: 5.90 - 6.40
Clarity and color of solution	: 10% solution in water is clear and colorless
Chloride	: $\leq 0.01\%$
Ammonium	: $\leq 0.02\%$
Sulfate	: $\leq 0.0065\%$
Heavy metals	: $\leq 0.0010\%$
Arsenic	: $\leq 0.0002\%$
Residue on ignition	: $\leq 0.10\%$
Loss on drying (at 105°C, 2 hr)	: $\leq 0.50\%$
Sulfated ash	: $\leq 0.10\%$
Ninhydrin-positive substances 1 (Amino acid analysis)	: $\leq 0.10\%$
: For each impurity	
Ninhydrin-positive substances 2 (Amino acid analysis)	: $\leq 1.00\%$
: Total impurity	
Related substances (system suitability, HPLC) :	: $\geq 5.0$ , between the peaks due to impurity A and glycine
Resolution	
Related substances 1 (HPLC) : Impurities B, H, I for	: $\leq 0.10\%$
Each impurity	
Related substances 2 (HPLC) : Unspecified impurities	: $\leq 0.10\%$
for each impurity	
Related substances 3 (HPLC) : Total impurity	: $\leq 0.20\%$
Related compounds: Glycine anhydride: HPLC	: $\leq 0.1\%$
Related compounds: Iminodiacetic acid: HPLC	: $\leq 0.1\%$
Related compounds: Diglycine : HPLC	: $\leq 0.1\%$
Related compounds: Triglycine : HPLC	: $\leq 0.1\%$
Related compounds: Hexamethylenetetramine: HPLC	: $\leq 0.1\%$
Related compounds: Total impurities: HPLC	: $\leq 1.0\%$
Assay (NT, on dried basis)	: 98.50 - 101.50%

Animal Cell  
Culture Tested



## Product Specification

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### Risk And Safety Information

WGK	: --
RTECS	: --
Storage Temperature(°C)	: Store below 30°C

### Transport Information

Marine Pollutant	: No
ADR/RID	: Not Dangerous Goods
IMDG	: Not Dangerous Goods
IATA	: Not Dangerous Goods

### Disclaimer :

- User must ensure suitability of the product(s) in their application prior to use.
- The product conforms solely to the technical information provided in this booklet and to the best of knowledge research and development work carried at **CDH** is true and accurate.
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