

Certificate of Analysis

L-GLYCINE

- [Description](#)
- [Product Information](#)
- [Applications](#)
- [Physicochemical Information](#)
- [Toxicological Information](#)
- [Safety Information according to GHS](#)
- [Storage and Shipping Information](#)
- [Transport Information](#)
- [Specifications](#)
- [Key Spec Table](#)
- [Pricing & Availability](#)
- [Global Trade Item Number](#)

Key Spec Table

CAS #	Empirical Formula	
56-40-6	C ₂ H ₅ NO ₂	

Pricing & Availability

Catalogue Number	Availability	Packaging	Qty/Pack	Price	Quantity	
1042010100	— L	Plastic bottle	100 g	Upon Order Completion More Information	—	
1042010250	—	Plastic bottle	250 g	Upon Order Completion More Information	—	
1042011000	—	Plastic bottle	1 kg	Upon Order Completion More Information	—	
1042015000	—	Plastic bottle	5 kg	Upon Order Completion More Information	—	L
1042019025	— L	Fibre carton	25 kg	Upon Order Completion More Information	—	

Add To Cart

Description		
Catalogue Number	104201	
Synonyms	Gly, Aminoacetic acid, Aminoethanoic acid	

Description		
Description	Glycine	
Product Information		
CAS number	56-40-6	
EC number	200-272-2	
Hill Formula	C ₂ H ₅ NO ₂	
Chemical formula	H ₂ NCH ₂ COOH	
Molar Mass	75.07 g/mol	
HS Code	2922 49 10	
Structure formula Image	The image shows the chemical structure of Glycine. It consists of a central carbon atom (the alpha carbon) bonded to a hydrogen atom (not explicitly shown, but implied by the four bonds), an amino group (H₂N), a carboxyl group (COOH), and a hydrogen atom (not explicitly shown, but implied by the four bonds). The carboxyl group is shown as a carbon atom double-bonded to an oxygen atom and single-bonded to a hydroxyl group (OH). The amino group is shown as a nitrogen atom bonded to two hydrogen atoms (H₂N).	

Applications		
Application	Glycine GR for analysis. CAS 56-40-6, EC Number 200-272-2, chemical formula $\text{H}_2\text{NCH}_2\text{COOH}$.	
Physicochemical Information		
Density	1.161 g/cm ³ (20 °C)	
Melting Point	>233 °C (decomposition)	
pH value	5.9 - 6.4 (50 g/l, H ₂ O, 20 °C)	
Vapor pressure	0.0000171 Pa (25 °C)	
Bulk density	920 kg/m ³	
Solubility	250 g/l soluble	
Toxicological Information		
LD 50 oral	LD50 Rat 7930 mg/kg	
Safety Information according to GHS		
RTECS	MB7600000	

Safety Information according to GHS		
Storage class	10 - 13 Other liquids and solids	
WGK	WGK 1 slightly hazardous to water	
Disposal	3 Relatively unreactive organic reagents should be collected in container A. If halogenated, they should be collected in container B. For solid residues use container C.	
Storage and Shipping Information		
Storage	Store at +5°C to +30°C.	
Transport Information		
Declaration (railroad and road) ADR, RID	Kein Gefahrgut	
Declaration (transport by air) IATA-DGR	No Dangerous Good	
Declaration (transport by sea) IMDG- Code	No Dangerous Good	

Specifications		
Assay (perchloric acid titration)	$\geq 99.7 \%$	
Identity (IR-spectrum)	passes test	
pH (50 g/l CO ₂ -free water)	5.9 - 6.3	
Chloride (Cl)	$\leq 0.003 \%$	
Sulfate (SO ₄)	$\leq 0.0025 \%$	
Heavy metals (as Pb)	$\leq 0.001 \%$	
Cu (Copper)	$\leq 0.0001 \%$	
Fe (Iron)	$\leq 0.0001 \%$	
Pb (Lead)	$\leq 0.0001 \%$	
NH ₄ (Ammonium)	$\leq 0.02 \%$	
Foreign amino acids	$\leq 0.1 \%$	

Specifications

**Other ninhydrine
positive substances**

$\leq 0.1 \%$

**In water insoluble
matter**

$\leq 0.003 \%$

**Sulfated ash
(600 °C)**

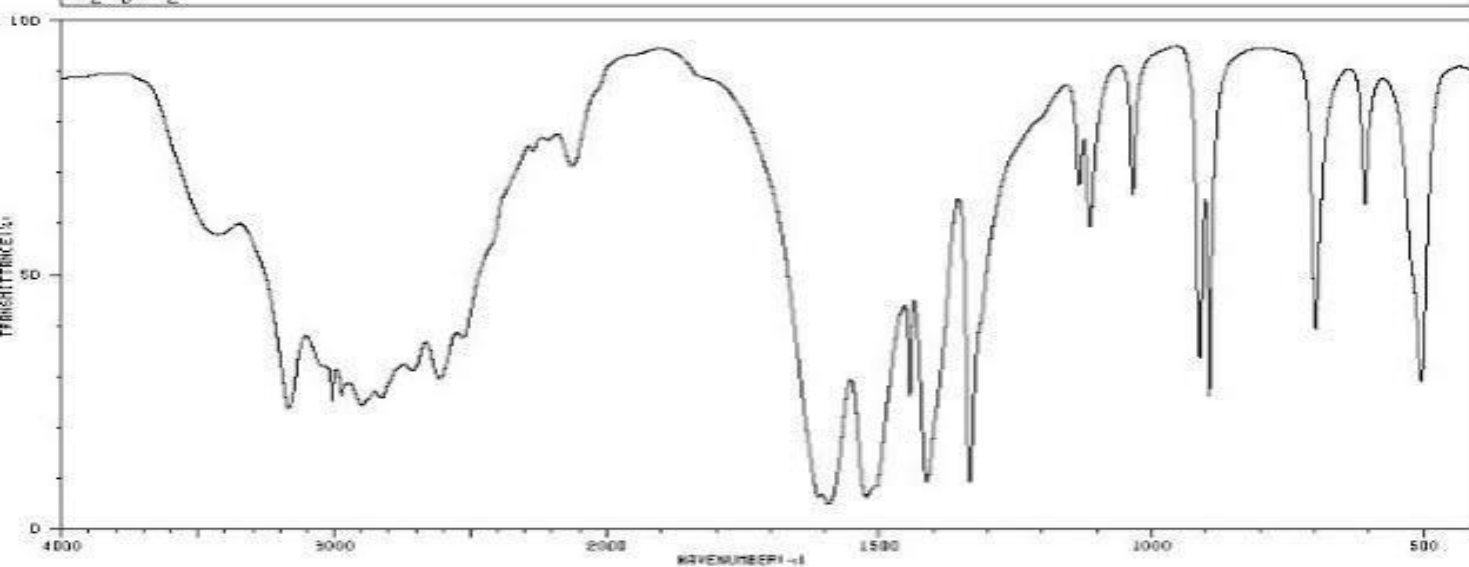
$\leq 0.05 \%$

FTIR

HIT-NO=1979 SCORE= 1 SDBS-NO=2482 IR-NIDA-01300 : KBR DISC

GLYCINE

$C_2H_5NO_2$



3424	66	2913	28	1444	26	893	26
3166	23	2269	72	1413	9	699	37
3008	23	2125	68	1334	8	608	62
2972	26	1806	6	1139	64	606	27
2898	23	1592	4	1113	57		
2826	24	1523	6	1034	84		
2713	30	1506	7	912	32		

