

**L-Cysteine 99%**

[52-90-4] (C<sub>3</sub>H<sub>7</sub>NO<sub>2</sub>S; H-S-C-H<sub>2</sub>-C-H(-N-H<sub>2</sub>)C-O-O-H) FW:121.16

**Product code. 8291**

**GR Grade**

TESTS	UNIT	SPECIFICATION
Appearance	-	White crystals or crystalline powder.
Identification	-	IR Spectrometry.
Assay	%	Min. 99.0
Solubility in HCl	-	To pass test
Specific rotation (α) 20 D	-	+7.0 ~ +9.0
Loss on drying (at 105°C, 3hr)	%	Max. 0.2
Ignition residue (as Sulfate)	%	Max. 0.05
Chloride (Cl)	%	Max. 0.01
Sulfate (SO <sub>4</sub> )	%	Max. 0.02
Heavy Metals (as Pb)	%	Max. 0.001
Arsenic (As)	ppm	Max. 1
Iron (Fe)	%	Max. 0.001
Ammonium (NH <sub>4</sub> )	%	Max. 0.02
Other amino acid	-	To pass test

**Test Method :** JIS K 9048

**Exp. Date :** 5 years after Mfg. Date

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