



## L-CYSTEINE FREE BASE

CAS No: 52-90-4

<b>Chemical Name</b>	(+)-2-Amino-3-mercaptopropionic acid
<b>FORMULA</b>	C <sub>3</sub> H <sub>7</sub> NO <sub>2</sub> S
<b>DESCRIPTION</b>	White crystal or crystalline powder
<b>ODOR</b>	Odorless
<b>GRADE</b>	Food grade
<b>CATEGORY</b>	Raw material

### SPECIFICATION

ITEMS	STANDARD
Specific rotation [α] <sub>D20</sub> <sup>o</sup>	+8.3 ° - +9.5 °
State of solution (Transmittance)	≥ 95.0%
Chloride(CL)	≤ 0.04%
Ammonium(NH <sub>4</sub> )	≤ 0.02%
Sulfate(SO <sub>4</sub> )	≤ 0.030%
Iron(Fe)	≤ 10PPm
Lead (Pb)	≤ 10PPm
Arsenic(As <sub>2</sub> O <sub>3</sub> )	≤ 1PPm
Other amino acids	Conforms
Loss on drying	≤ 0.50%
Residue on ignition (Sulfated)	≤ 0.10%
Assay	98 -101.0%
PH	4.5 - 5.5

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