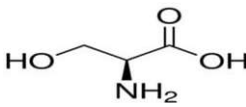





## L-SERINE

|  |  |   |
|--|--|---|
| <b>PRODUCTCODE</b>   | <b>R01957</b>  |   |
| <b>SYNONYMS</b>  | --   |   |
| <b>C.I. NO.</b>  | --   |   |
| <b>CASR NO.</b>  | (56-45-1)  |   |
| <b>ATOMICORMOLECULARFORMULA</b>  | $C_3H_7NO_3$   |  |
| <b>ATOMICORMOLECULARWEIGHT</b>   | 105.10   |   |
| <b>PROPERTIES</b>  | Insoluble inalcoholandether,opticallyactive.               |   |
| <b>PARAMETER</b>   | <b>LIMIT</b>   |   |
| Description  | Awhiteor almostwhitecrystallinepowderorcolourlesscrystals. |   |
| Solubility   | 10%solutioninwaterisclearandalmostcolourless.              |   |
| Identification   | Passestest   |   |
| Apparanceofsolution  | Passestest.  |   |
| Assay(Non-   | 98.5–101.0%  |   |
| Aqu.calc.withref.tothedriedsubstance.)   |  |   |
| Specific rotation $[\alpha]_D^{20}$<br>(10%solutionindil.HCl;ondriedmaterial)  | +14.0°to+16.0°.  |   |
| Ninhydrin–positivesubstance  | Passestest.  |   |
| <b>MAXIMUMLIMITOFIMPURITIES</b>  |  |   |
| Lossondryingat110°C  | 0.5%   |   |
| Sulphatedash   | 0.1%   |   |
| Ammonium   | 0.02%  |   |
| Chloride(Cl)   | 0.02%  |   |
| Sulphate(SO <sub>4</sub> )   | 0.03%  |   |
| Iron (Fe)  | 0.001%   |   |
| Heavymetals(asPb)  | 0.001%   |   |
| <b>Note(s):Assay(ifapplicable)methodmentioned.</b>   |  |   |
| <b>WARNING</b>   | IMDGCode:--  |   |
| <b>Hazardstatements:</b> Nothazardous.Nohazards.   | UNNo. :--  |   |
| <b>Precautionarystatements</b>   | IATA :--   |   |
| <b>Prevention:</b> -----   |  |   |
| <b>Response:</b> ---   |  |   |
| <b>Disposal:</b> –Dissolvethechemicaltobedisposed,inwaterandallowittoruntowaste,dilutingwithlargequantities ofwater. |  |   |
| <b>HazardPictogram(s):</b>   |  |   |
|                                   |  |   |

Replace Date 1 April 2023

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