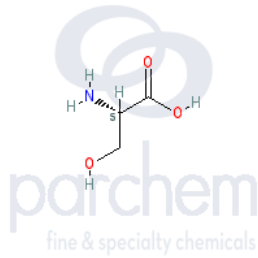


Typical Product Specifications & Properties

L-Serine

CAS Number: : 56-45-1

Specifications	Limits
Identification	Passes IR Test
Specific Rotation	+14.0 ° and +15.6°
Loss on Drying	NMT 0.2%
Residue on ignition; USP <281>	NMT 0.1%
Chloride; USP <221>	NMT 0.05 %
Sulfate; USP <221>	NMT 0.03%
Iron	NMT 0.003%
Heavy Metals; USP <231>	NMT 0.0015%
Organic Volatiles	Meets the requirements
Individual Impurities	NMT 0.5%
Chromatographic Purity min	NMT 1.5%
Total Impurities	NMT 2.0 %

Specifications	Limits
Assay %	98.5% - 101.5%
Insolubility	in alcohol, ether
Melting Point	228 c (dec.)
Odor	wh. cryst. or cryst. powd., odorless, sweet taste
Molecular weight	105.10
Solubility	water
Chemical Structure	 <p>The image shows the chemical structure of L-phenylalanine, an amino acid. It features a central chiral carbon atom bonded to a hydrogen atom (H), an amino group (NH₂), a carboxylic acid group (COOH), and a side chain consisting of a methylene group (-CH₂-) attached to a phenyl ring. A watermark for 'parchem fine & specialty chemicals' is overlaid on the structure.</p>