

Product Datasheet

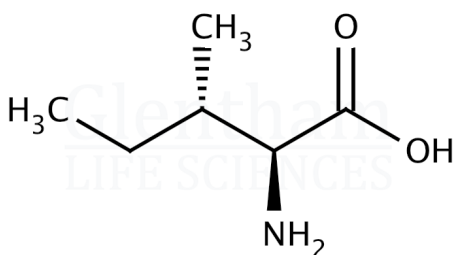
GM6591 - L-Isoleucine

Product Details

Product Name	L-Isoleucine
Glenthams Code	GM6591
CAS Number	73-32-5
EINECS	200-798-2
MDL Number	MFCD00064222
PubChem SID	310275405
Related Categories	Amino Acids, Biochemicals, Reagents for Cell Culture, Cosmetic Raw Materials

Structure

Molecular Weight	: 131.18
Molecular Formula	: $C_6H_{13}NO_2$



Physical Description	: White to off-white powder or crystals
Identification (IR)	: To conform to standard
pH (1% in water)	: 5.5 - 7.0
Specific Optical Rotation ([α] _{20/D})	: +38.9 - +41.8 ° (C=4, 6M HCl)
Residue on Ignition	: ≤ 0.3%
Loss on Drying	: ≤ 0.3%
Chloride (Cl)	: ≤ 500ppm
Iron (Fe)	: ≤ 30ppm
Sulphate (SO ₄)	: ≤ 300ppm
Ammonium (NH ₄)	: ≤ 200ppm
Heavy Metals	: ≤ 10ppm
Lead (Pb)	: ≤ 3ppm
Arsenic (As ₂ O ₃)	: ≤ 1ppm
Cadmium (Cd)	: ≤ 1ppm
Mercury (Hg)	: ≤ 0.1ppm
Assay	: 98.5 - 101.0 %
Pharmacopoeia Specification(s)	: USP
Version	: v1.1

About L-Isoleucine

Branched chain hydrophobic alpha-amino acid that can be synthesised from threonine. Considered an essential amino acid and so must be consumed by humans in their diet. Used in the biosynthesis of proteins.

Storage

Recommended storage temperature: +20°C.

Hazards and Transport

Not classified as hazardous under CLP.
Not classified as dangerous for transport.

Glenthams Product Specification

This document was generated electronically and is therefore valid without signature. © Glenthams Life Sciences Ltd, 2025