

## Product Datasheet

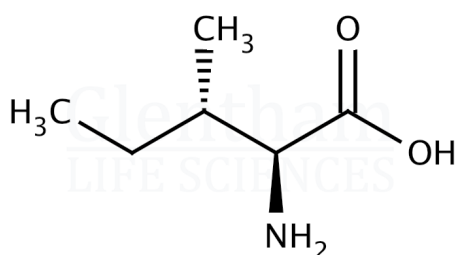
### GM6591 - L-Isoleucine

#### 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] <sub>20/D</sub> )	: +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 <sub>4</sub> )	: ≤ 300ppm
Ammonium (NH <sub>4</sub> )	: ≤ 200ppm
Heavy Metals	: ≤ 10ppm
Lead (Pb)	: ≤ 3ppm
Arsenic (As <sub>2</sub> O <sub>3</sub> )	: ≤ 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

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