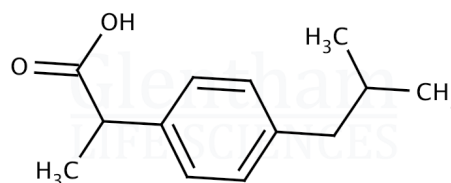


Certificate of Analysis

Product Name Ibuprofen, EP grade
Glenthams Code GP9034
CAS Number 15687-27-1
EINECS 239-784-6
MDL Number MFCD00010393
Additional CAS 58560-75-1
Batch Number 515JMK

Molecular Weight 206.29
Molecular Formula $C_{13}H_{18}O_2$
Storage Temp. +20°C



Property	Specification	Batch 515JMK
Physical Description	White crystalline powder	White crystalline powder
Melting Point	75.0 - 78.0 °C	75.5 - 76.4 °C
Identification (UV-VIS)	To pass EP tests (B)	Conforms
Identification (IR)	To conform to standard (C)	Conforms
Identification (TLC)	To conform to reference (D)	Conforms
Solubility (10% in methanol)	Clear, colourless solution	Conforms
Specific Optical Rotation	-0.05 - +0.05 ° (c=2.5, MeOH)	0.00°
Impurities A, J, N (HPLC)	≤ 0.15% (each)	0.02% (max.)
Any Unspecified Impurity (HPLC)	≤ 0.05%	0.03%
Total Impurities (HPLC)	≤ 0.20%	0.10%
Impurity F	≤ 0.10%	Not detected
Loss on Drying	≤ 0.5%	0.16%
Sulphated Ash	≤ 0.1%	0.01%
Assay (Titration)	98.5 - 101.0 % (dried substance)	99.9%
Pharmacopoeia Specification(s)	EP	Conforms to EP

Specification Version v1.0
Manufacture Date 2018-07-16
Re-Test Date 2027-05-18

Glenthams Life Sciences confirm that the above referenced product conformed to the information displayed in this document on the quality release date. Please check www.glenthams.com or contact us using the details above for the current version of this document.

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