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CERTIFICATE OF ANALYSIS

Analysis Date: Apr 2025

Re-test Date: Mar 2028

Product Name: Ibuprofen EP Impurity E

Identification:

Chemical Name: 1-[4-(2-Methylpropyl)phenyl]ethanone (as per EP)

Synonyms : Ibuprofen USP Related
Compound C ; Ibuprofen BP
Impurity E

CAS Number : 38861-78-8

CAT Number : CP-I2005

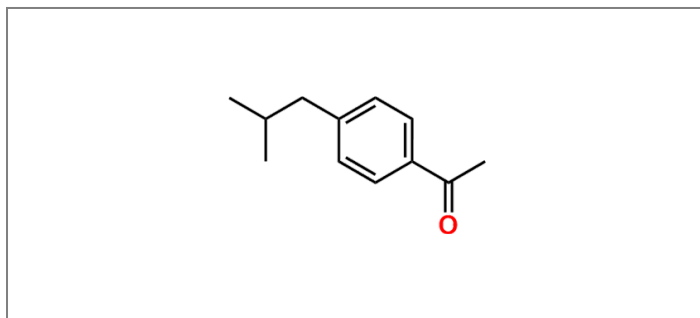
Molecular Formula : C₁₂H₁₆O

Molecular Weight : 176.25

Batch Number : CHEM-IBU-E-1002-001

Storage Condition : Tightly closed, Inert atmosphere at 2 to 8° C

Shipping condition : All Products are stable to be shipped at room temperature, if specific condition required it is mention in the COA



Analytical Information:

Sr. No.	Test	Result
1)	Description	Pale Yellow to Light Brown Liquid
2)	Solubility	Soluble in Methanol/DMSO
3)	MASS By LCMS	Confirm to structure
4)	Purity By HPLC	97.67%
5)	¹ HNMR	Confirm to structure
6)	Weight loss by TGA	7.600%
7)	Potency by TGA	90.25%



Prepared and Reviewed By



Ms Priyanka Salunkhe
(Quality Control)

Approved By



Ms Rohini Gagare
(Quality Assurance)

Note: Product supplied by Chemicea are for R&D purpose only and not for human consumptions.