

CERTIFICATE OF ANALYSIS

(Certificate No. KMI002037-01)

Release Date: 16/04/2026

Re-test Date: 15/04/2029

IBUPROFEN EP IMPURITY E

Identification

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

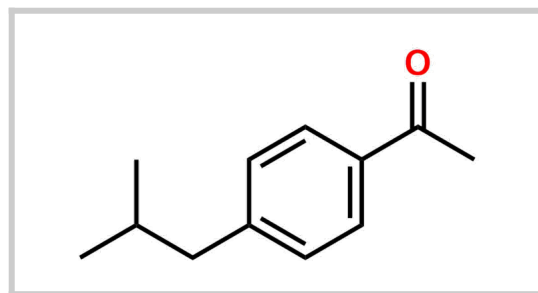
Alt. Name : Ibuprofen USP Related Compound C

CAT No. : KMI002037

CAS No. : 38861-78-8

Molecular Formula : C₁₂H₁₆O

Molecular Weight : 176.3



Analytical Information

Batch No. : I002037-114-258

Description : Colorless Liquid

HPLC Purity : 99.20 %

Weight Loss By TGA : 1.66 %

% Potency : 97.55 %

Solubility : ACN

Mass : Confirm

IR : Confirm

¹H NMR : Confirm

Additional Information

Long Term Storage : Store at 2-8 deg. C for long term storage

Shipping Condition : Product is stable to be Shipped at Room Temperature

% Potency = $[100 - 1.66(\text{Weight Loss By TGA})] \times [99.20(\text{HPLC Purity})]/100 = 97.55 \%$

Recommendation : Released

	Department	Name	Signature	Date
Prepared By	Analytical	Jignesh Patel		16/04/2026
Reviewed & Approved By	Quality Control	Jatin Patel		16/04/2026

Attachments : COA, HPLC, MASS, ¹HNMR, IR and TGA