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)

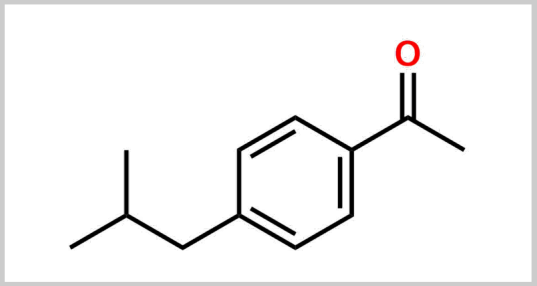
Alt. Name : Ibuprofen USP Related Compound C

CAT No. : KMI002037

CAS No. : 38861-78-8

Molecular Formula : C12H16O

Molecular Weight : 176.3



Analytical Information

Batch No.	: I002037-114-258	**Solubility**	: ACN
Description	: Colorless Liquid	**Mass**	: Confirm
HPLC Purity	: 99.20 %	**IR**	: Confirm
Weight Loss By TGA	: 1.66 %	**1H NMR**	: Confirm
% Potency	: 97.55 %		

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(Weight Loss By TGA)] x [99.20(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