

CERTIFICATE OF ANALYSIS

(Certificate No. KMI002042-01)

Release Date: 28/05/2025

Re-test Date: 27/05/2028

Ibuprofen Related Compound J

Identification

Chemical Name :

(2RS)-2-[4-(2-Methylpropanoyl)phenyl]propanoic acid (as per EP)

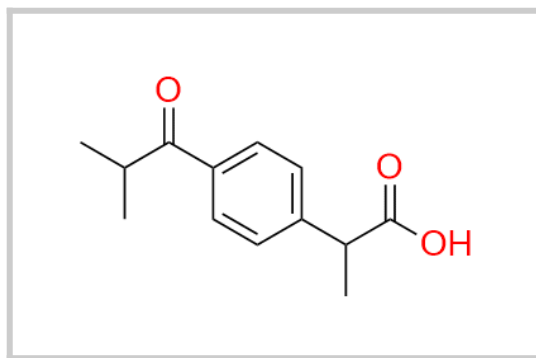
Alt. Name : Ibuprofen USP Related Compound J ;
Ibuprofen BP Impurity J ; 1-Oxo
Ibuprofen

CAT No. : KMI002042

CAS No. : 65813-55-0

Molecular Formula : C₁₃H₁₆O₃

Molecular Weight : 220.3



Analytical Information

Batch No. : IBU-RC-J-045-089

Description : White Solid

HPLC Purity : 99.83 %

Weight Loss By TGA : 0.81 %

% Potency : 99.02 %

Solubility : Acetonitrile

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 - 0.81(Weight Loss By TGA)] x [99.83(HPLC Purity)]/100 = 99.02 %

-Re-tested on 28.05.2025

Recommendation : Released

| | Department | Name | Signature | Date |
|------------------------|-----------------|---------------|-----------|------------|
| Prepared By | Analytical | Jignesh Patel | | 29/05/2025 |
| Reviewed & Approved By | Quality Control | Jatin Patel | | 29/05/2025 |

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