

# CERTIFICATE OF ANALYSIS

(Certificate No. KMI002042-01)

Release Date: 29/05/2025

Re-test Date: 28/05/2028

## Ibuprofen Impurity J

### Identification

**Chemical Name :**  
(2RS)-2-[4-(2-Methylpropanoyl)phenyl]propanoic acid (as per EP)

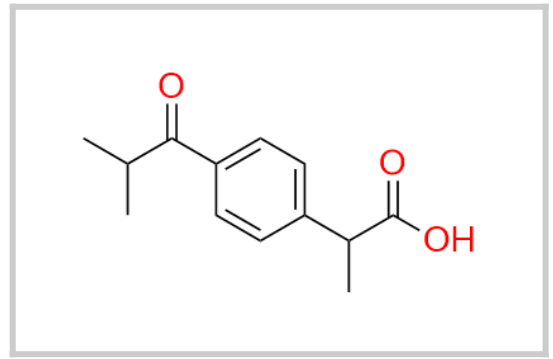
**Alt. Name** : Ibuprofen USP Related Compound J ;  
Ibuprofen BP Impurity J ; 1-Oxo  
Ibuprofen

**CAT No.** : KMI002042

**CAS No.** : 65813-55-0

**Molecular Formula** : C<sub>13</sub>H<sub>16</sub>O<sub>3</sub>

**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

**<sup>1</sup>H 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 29.05.2025

**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