

# CERTIFICATE OF ANALYSIS

(Certificate No. KMI002001-01)

Release Date: 20/05/2026

Re-test Date: 19/05/2029

## Ibuprofen Aldehyde Impurity

### Identification

**Chemical Name :**  
2-(4-isobutylphenyl)propanal

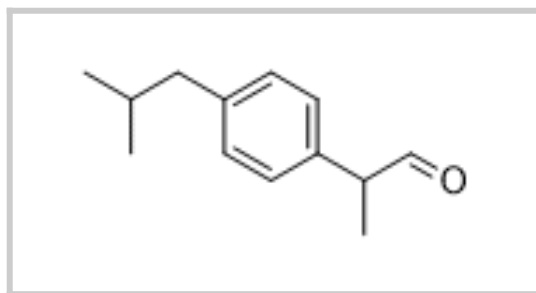
**Alt. Name** : 2-(4-Isobutylphenyl)propanal

**CAT No.** : KMI002001

**CAS No.** : 51407-46-6

**Molecular Formula** : C<sub>13</sub>H<sub>18</sub>O

**Molecular Weight** : 190.28



### Analytical Information

**Batch No.** : IBU-ALD-073-005

**Description** : Light Yellow Liquid

**HPLC Purity** : 99.26 %

**Weight Loss By TGA** : 2.81 %

**% Potency** : 96.47 %

**Solubility** : ACN

**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 - 2.81(Weight Loss By TGA)] x [99.26(HPLC Purity)]/100 = 96.47 %

-Re-tested on 20.05.2026

**Recommendation** : Released

	Department	Name	Signature	Date
<b>Prepared By</b>	Analytical	Jignesh Patel		20/05/2026
<b>Reviewed &amp; Approved By</b>	Quality Control	Jatin Patel		20/05/2026

**Attachments** : COA, HPLC, MASS, <sup>1</sup>HNMR, IR and TGA