

# CERTIFICATE OF ANALYSIS

(Certificate No. KMI002032-01)

Release Date: 22/05/2026

Re-test Date: 21/05/2029

## Ibuprofen Impurity A

### Identification

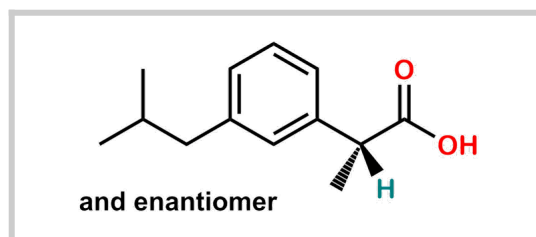
**Chemical Name :**  
(2RS)-2-[3-(2-methylpropyl)phenyl]propanoic acid (as per EP)

**CAT No. :** KMI002032

**CAS No. :** 66622-47-7

**Molecular Formula :** C<sub>13</sub>H<sub>18</sub>O<sub>2</sub>

**Molecular Weight :** 206.3



### Analytical Information

**Batch No. :** I002032-114-340

**Description :** Light Yellow Liquid

**HPLC Purity :** 96.81 %

**Weight Loss By TGA :** 2.62 %

**% Potency :** 94.27 %

**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 - 2.62(Weight Loss By TGA)] x [96.81(HPLC Purity)]/100 = 94.27 %

**Recommendation :** Released

	Department	Name	Signature	Date
Prepared By	Analytical	Jignesh Patel		22/05/2026
Reviewed & Approved By	Quality Control	Jatin Patel		22/05/2026

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