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## CERTIFICATE OF ANALYSIS

Analysis Date: Feb 2025

Re-test Date: Jan 2028

**Product Name: Ketoprofen EP impurity I**

### Identification:

Chemical Name: (3-benzoylphenyl)ethanenitrile (as per EP)

Synonyms : Benzoylphenylacetone nitrile (USP)

CAS Number : 21288-34-6

CAT Number : CP-K3009

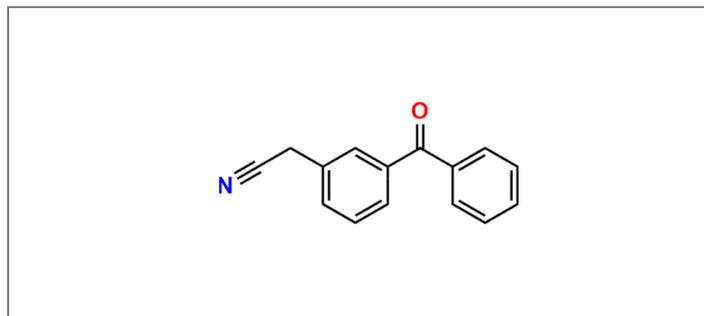
Molecular Formula : C<sub>15</sub>H<sub>11</sub>NO

Molecular Weight : 221.26

Batch Number : CP-KET-I-0125

Storage Condition : Tightly closed, Inert atmosphere at 2 to 8° C

Shipping condition : All Products are stable to be shipped at room temperature, if specific condition required it is mention in the COA



### Analytical Information:

Sr. No.	Test	Result
1)	Description	White to Off White Solid
2)	Solubility	Soluble in Methanol/DMSO
3)	MASS By LCMS	Confirm to structure
4)	Purity By HPLC	99.46%
5)	<sup>1</sup> H NMR	Confirm to structure
6)	<sup>13</sup> C NMR	Confirm to Structure
7)	IR	Confirm to Structure
8)	Weight loss by TGA	0.027%
9)	Potency by TGA	99.43%



**Prepared and Reviewed By**



Ms Priyanka Salunkhe  
(Quality Control)

**Approved By**



Ms Rohini Gagare  
(Quality Assurance)

Note: Product supplied by Chemicea are for R&D purpose only and not for human consumptions.