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## CERTIFICATE OF ANALYSIS

Analysis Date:

Re-test Date:

**Product Name: Tofacitinib Impurity 174**

### Identification:

Chemical Name: Ethyl 2,4-dicyano-3-oxobutanoate

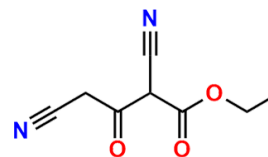
Synonyms : NA

CAS Number : 861612-04-6

CAT Number : CP-T23151

Molecular Formula : C<sub>8</sub>H<sub>8</sub>N<sub>2</sub>O<sub>3</sub>

Molecular Weight : 180.16



### Analytical Information:

Sr. No.	Test	Result
1)	Description	Solid
2)	Solubility	Soluble in Methanol/DMSO
3)	MASS By LCMS	Confirm to structure
4)	Purity By HPLC	>95%
5)	H1NMR	Confirm to structure



**Prepared and Reviewed By**



Ms Priyanka Salunkhe  
(Manager QC Analytical)

**Approved By**



Ms Rohini Gagare  
(QA Head)

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