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## CERTIFICATE OF ANALYSIS

Analysis Date:

Re-test Date:

**Product Name: Linagliptin Impurity 81**

### Identification:

Chemical Name: Diethyl (tert-butoxycarbonyl)-D-glutamate

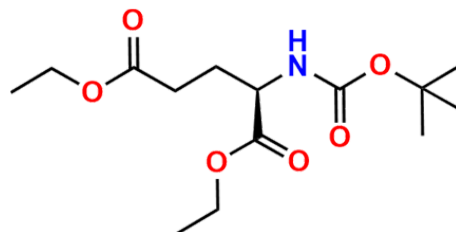
Synonyms : NA

CAS Number : 93720-76-4

CAT Number : CP-L1085

Molecular Formula : C<sub>14</sub>H<sub>25</sub>N<sub>0</sub>O<sub>6</sub>

Molecular Weight : 303.4



### 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.