

**Analysis Date:** 14-01-2025

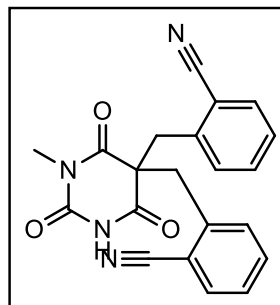
**Re-test Date:** 14-01-2028

### ALOGLIPTIN IMPURITY 51

**Identification**
**Chemical Name** : 2,2'-((1-Methyl-2,4,6-trioxohexahydropyrimidine-5,5-diyl)bis(methylene))dibenzonitrile

**CAT No** : ALL-ALO- 1322

**CAS No** : 2565-47-1

**Molecular Formula** : C<sub>21</sub>H<sub>16</sub>N<sub>4</sub>O<sub>3</sub>
**Molecular Weight** : 372.4

**Analytical Information**

<b>Batch Code</b>	: ALL-ALE- 1322	<b>HPLC Purity</b>	: 98.08 %
<b>Solubility</b>	: MeOH: ACN	<b>Potency</b>	: 96.95 %
<b>Appearance of Product</b>	: Off White Solid	<b>Mass</b>	: Confirm
<b>Long Term Storage</b>	: 2-8 <sup>0</sup> C	<b>IR Analysis</b>	: Confirm
<b>Water Content By TGA</b>	: 1.129 %	<b><sup>1</sup>H NMR</b>	: Confirm
<b>Residue Of Ignition</b>	: 0.014 %		

**Additional Information**

**%Potency** = [100 - (Residue % + Water %) × Chromatographic Purity%]/100 =  
 [100 - (1.129+0.014) × 98.08]/100 = 96.95 %

**Recommendation** : Released

	Department	Name	Signature
Prepared and Reviewed by	Analytical	Mr. Swapnil Kausatkar Jr. Executive	
Approved By	QA&QC	Dr. Ashish Keche Director QA&QC	

**Attachment** : HPLC, Mass, <sup>1</sup>H NMR, IR, TGA

**Shipping Condition** : All Product are stable to be shipped at room temperature, unless otherwise specified

**Corporate Office**