

**Analysis Date:** 08-10-2025

**Re-test Date:** 08-10-2028

### SAXAGLIPTIN IMPURITY 39

**Identification**

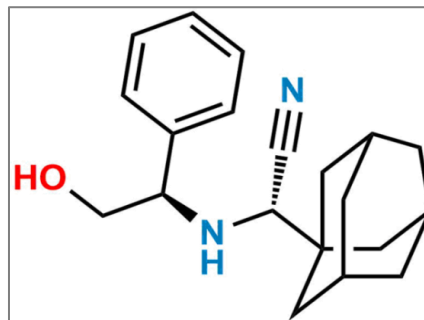
**Chemical Name** : (S)-2-((3S,5S,7S)-Adamantan-1-yl)-2-(((R)-2-hydroxy-1-phenylethyl)amino)acetonitrile

**CAT No** : ALL-SAX-86

**CAS No** : 361441-95-4

**Molecular Formula** : C<sub>20</sub>H<sub>26</sub>N<sub>2</sub>O

**Molecular Weight** : 310.4


**Analytical Information**

<b>Batch No.</b>	: ALL-SAX-86	<b>HPLC Purity</b>	: 98.00%
<b>Solubility</b>	: USP Diluent / EP Diluent (MEOH)	<b>Potency</b>	: 97.26%
<b>Appearance of Product</b>	: Off White Solid	<b>Mass</b>	: Confirm
<b>Long Term Storage</b>	: -20°C	<b>IR Analysis</b>	: Confirm
<b>Weight Loss By TGA</b>	: 0.275%	<b><sup>1</sup>HNMR</b>	: Confirm
<b>Residue Of Ignition</b>	: 0.476%		

**Additional Information**

**%Potency** = [100 - (Weight Loss By TGA % + Residue Of Ignition %) × Chromatographic Purity%]/100 =  
 [100 - (0.275+0.476) × 98.00]/100 = 97.26%

**Recommendation** : Released

	Department	Name	Signature
Prepared and Reviewed by	Analytical	Mr.Vipul khadase 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**