

# CERTIFICATE OF ANALYSIS

(Certificate No. KMC005002-01)

Release Date: 30/08/2022

Re-test Date: 29/08/2025

## Diol Impurity of Carvedilol

### Identification

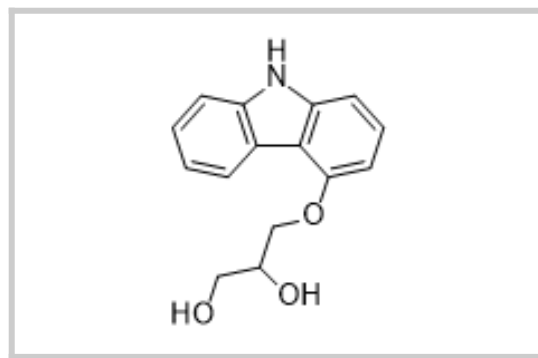
**Chemical Name :**  
3-((9H-carbazol-4-yl)oxy)propane-1,2-diol

**CAT No.** : KMC005002

**CAS No.** : 123119-89-1

**Molecular Formula** : C<sub>15</sub>H<sub>15</sub>NO<sub>3</sub>

**Molecular Weight** : 257.28



### Analytical Information

**Batch No.** : CARV-PD-030-270

**Description** : Off White Solid

**HPLC Purity** : 95.60 %

**Weight Loss By TGA** : 0.01 %

**% Potency** : 95.59 %

**Solubility** : ACN

**Mass** : Confirm

**IR** : Confirm

**<sup>1</sup>H NMR** : Confirm

### Additional Information

**Long Term Storage** : Store at 2-8 deg. C for long term storage

**Shipping Condition** : Product is stable to be shipped at room temperature

**% Potency** = [100 - 0.01(Weight Loss By TGA)] x [95.60(HPLC Purity)]/100 = 95.59 %

Remarks : COA Re-generated on 07.08.2024

**Recommendation** : Released

	Department	Name	Signature	Date
<b>Prepared By</b>	Analytical	Jignesh Patel		07/08/2024
<b>Reviewed &amp; Approved By</b>	Quality Control	Parag Patel		07/08/2024

**Attachments** : COA, HPLC, MASS, <sup>1</sup>H NMR, IR and TGA