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## CERTIFICATE OF ANALYSIS

Analysis Date: Mar 2024

Re-test Date: Feb 2026

**Product Name: Bisoprolol EP Impurity N**

### Identification:

Chemical Name: (2RS)-1-[4-((2-Ethoxyethoxy)methyl)phenoxy]-3-(isopropylamino)-2-propanol

Synonyms : O-Desisopropyl-O-ethyl  
Bisoprolol Hemifumarate

CAS Number : 1346601-75-9

CAT Number : CP-B14014

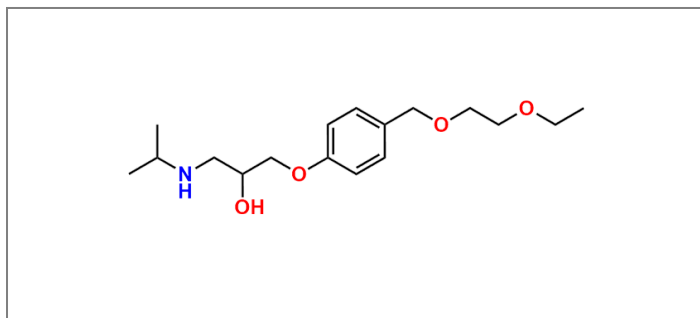
Molecular Formula : C<sub>17</sub>H<sub>29</sub>NO<sub>4</sub>

Molecular Weight : 311.42

Batch Number : CP-BIS-N-0324

Storage Condition : Tightly closed, Inert atmosphere at 2 to 8° C

Shipping condition : All Products are stable to be shipped at room temperature, if specific condition required it is mention in the COA



### Analytical Information:

| Sr. No. | Test               | Result                   |
|---------|--------------------|--------------------------|
| 1)      | Description        | Off White To White Solid |
| 2)      | Solubility         | Soluble in Methanol/DMSO |
| 3)      | MASS By LCMS       | Confirm to structure     |
| 4)      | Purity By HPLC     | 98.95%                   |
| 5)      | H1NMR              | Confirm to structure     |
| 6)      | 13CNMR             | Confirm to structure     |
| 7)      | Weight loss by TGA | 7.915%                   |
| 8)      | Potency by TGA     | 91.14%                   |



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.