CERTIFICATE OF ANALYSIS

(Certificate No. KMM005042-01)

Release Date: 13/10/2026 **Re-test Date:** 12/10/2029

Metoprolol Methoxy Epoxide Impurity

Identification

Chemical Name :
2-((4-(2-methoxyethyl)phenoxy)methyl)oxirane

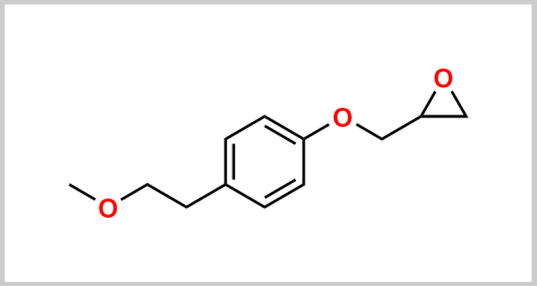
Alt. Name : Metoprolol Methoxy Epoxide Impurity

CAT No. : KMM005042

CAS No. : 56718-70-8

Molecular Formula : C12H16O3

Molecular Weight : 208.3



Analytical Information

Batch No. : M005042-136-284

Description : Yellow Liquid

HPLC Purity : 99.47 %

Weight Loss By TGA : 0.47 %

% Potency : 99 %

Solubility : Acetonitrile

Mass : Confirm as water adduct

IR : Confirm

1H NMR : Confirm

13C 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 - 0.47(Weight Loss By TGA)] x [99.47(HPLC Purity)]/100 = 99 %

Recommendation : Released

	Department	Name	Signature	Date
Prepared By	Analytical	Jignesh Patel		13/10/2026
Reviewed & Approved By	Quality Control	Jatin Patel		13/10/2026

Attachments : COA, HPLC, MASS, 1HNMR, 13CNMR, IR and TGA