CERTIFICATE OF ANALYSIS

(Certificate No. KMM005042-01)

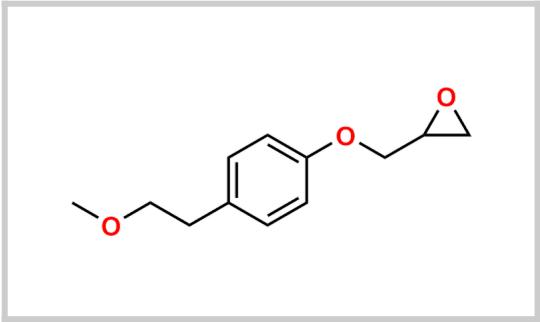
Release Date: 13/10/2026 **Re-test Date:** 12/10/2029

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