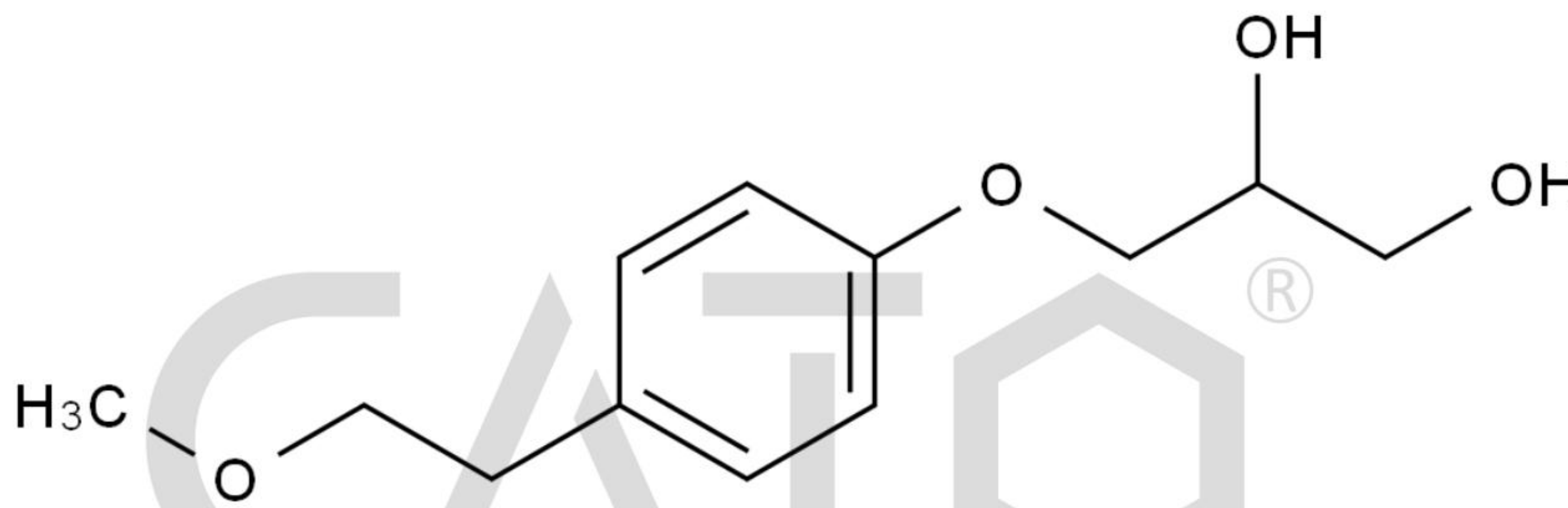


Certificate of Analysis

Reference Material & Standard

Product Name:	Metoprolol EP Impurity D	Catalogue Number:	C4X-13674
Synonyms:	N/A	Lot Number:	0506-RG-0020
CAS Number:	62572-90-1	Expiry Date:	Jan 26, 2030
Molecular Formula:	C ₁₂ H ₁₈ O ₄	Storage:	-20°C±5°C Protected from light and Sealed
Molecular Weight:	226.27	Shipping Condition:	Shipping with Ice Packs
Solubility:	Acetonitrile		

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	White Solid
Identification	LCMS&UV&CNMR&HNMR	Confirmed
Purity	HPLC	99.792%
Loss On Drying	TGA	0.0558%
Assay		99.7%

Comment:

The calculation of the mass balance method follows the formula (calculated on the non-dried basis):

Assay (%) = (100%-Loss On Drying) * Purity HPLC (%) / 100%

Loss On Drying is considered as absolute effect, HPLC purity is considered as relative effect.

Signature:

Prepared by:

Koi

Reviewed by:

Lisa

Approved by General Manager:

David

Date: Jan 27, 2026

Date: Jan 28, 2026

Date: Jan 28, 2026



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Page 1 of 8



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