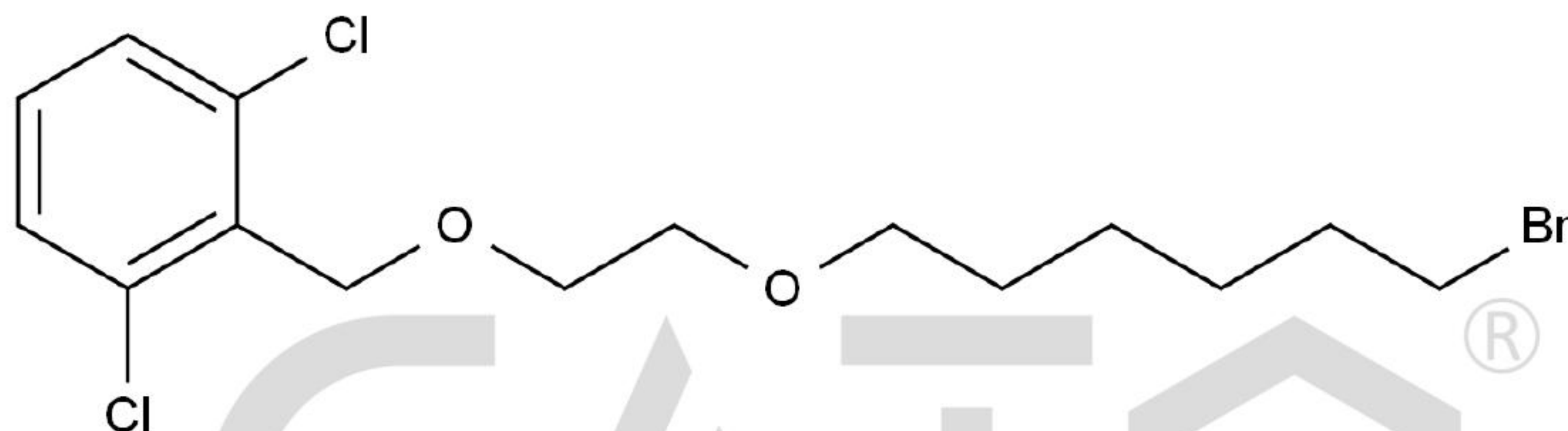


Certificate of Analysis

Reference Material & Standard

Product Name:	Vilanterol Impurity 40	Catalogue Number:	C4X-193540
Synonyms:	2-[2-(6-Bromoheptyloxy)ethoxyMethyl]-1,3-dichlorobenzene	Lot Number:	0304-RH-0054
CAS Number:	503070-57-3	Expiry Date:	Mar 08, 2030
Molecular Formula:	C ₁₅ H ₂₁ BrCl ₂ O ₂	Storage:	-20°C ± 5°C Protected from light and Sealed
Molecular Weight:	384.14	Shipping Condition:	Shipping with Ice Packs
Solubility:	Acetonitrile	Warning:	

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	Colorless Liquid
Identification	LCMS&HNMR	Confirmed
Purity	HPLC	97.982%
Loss On Drying	TGA	0.0721%
Assay		97.9%

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:

Nice

Reviewed by:

Koi

Approved by General Manager:

David

Date: Mar 09, 2026

Date: Mar 09, 2026

Date: Mar 09, 2026



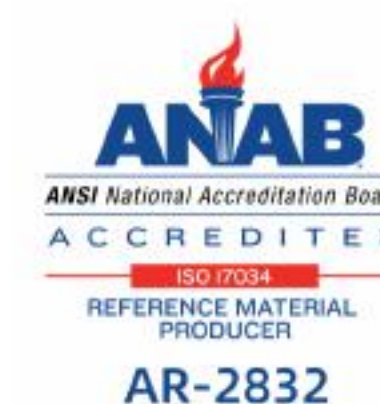
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