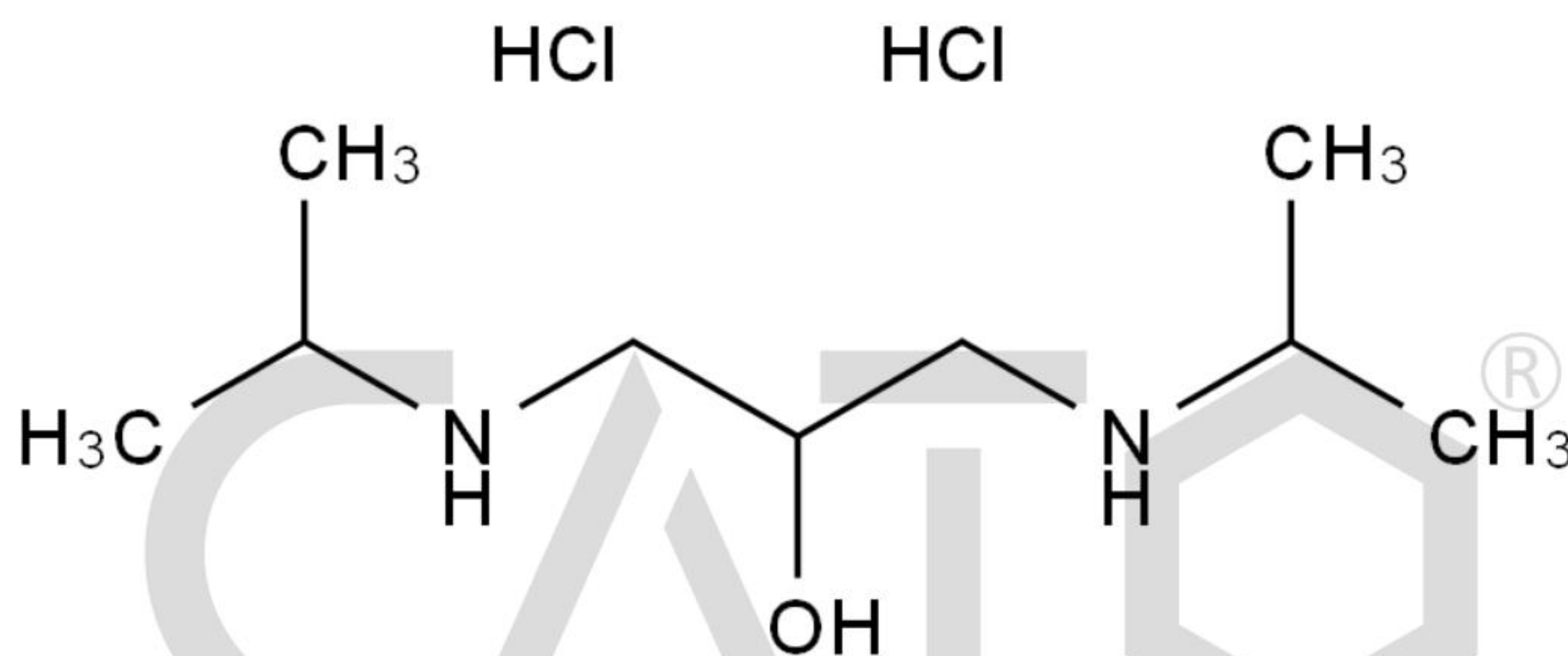


Certificate of Analysis

Reference Material & Standard

Product Name:	Metoprolol EP Impurity M DiHCl	Catalogue Number:	C4X-136725
Synonyms:	Bisoprolol Impurity	Lot Number:	0310-RG-0065
CAS Number:	73313-36-7	Expiry Date:	Apr 09, 2030
Molecular Formula:	C ₉ H ₂₂ N ₂ O 2*HCl	Storage:	2°C ~ 8°C Protected from light and Sealed
Molecular Weight:	174.28 2*36.46	Shipping Condition:	Shipping at Room Temperature

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	White Solid
Identification	LCMS&HNMR	Confirmed
Purity	ELSD	100.000%
Water Content	Karl Fischer	0.5346%
Assay		99.5%

Comment:

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

Assay (%) = (100% - Water Content) * Purity ELSD (%) / 100%

Water Content is considered as absolute effect, ELSD purity is considered as relative effect.

Signature:

Prepared by:

Koi

Reviewed by:

Lisa

Approved by General Manager:

David

Date: Apr 10, 2026

Date: Apr 13, 2026

Date: Apr 13, 2026



Add: 3rd Floor, Building B, No.179, Guangpu Rd East, Huangpu District, Guangzhou, China

Tel: +86-20-81960175

Email: supports@cato-chem.com

Web: <https://www.cato-chem.com>

