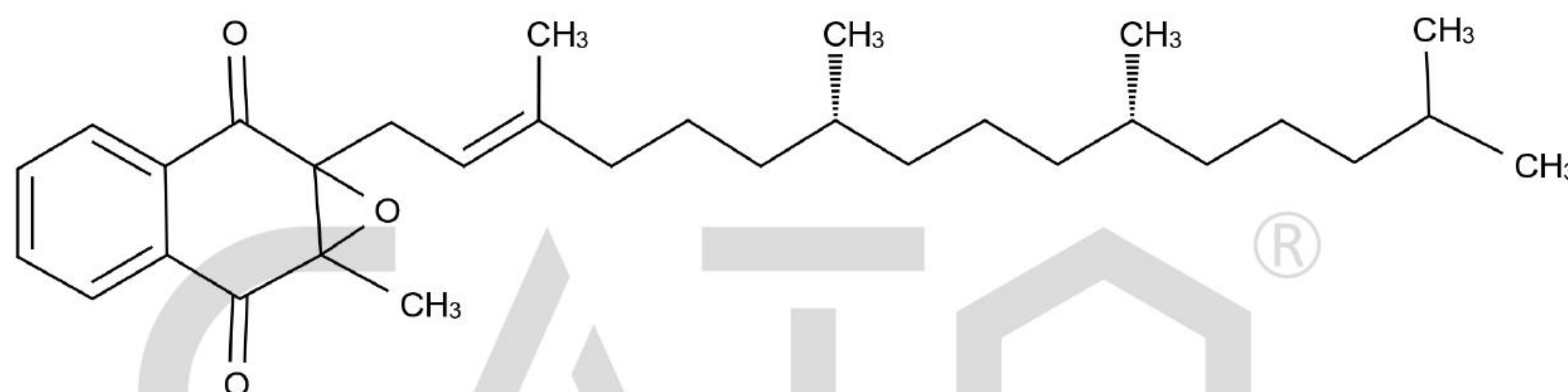


Certificate of Analysis

Reference Material & Standard

Product Name:	2,3-Epoxy Vitamin K1 (Mixture of Diastereomers)	Catalogue Number:	C4X-220725
Synonyms:	N/A	Lot Number:	0730-RF-0038
CAS Number:	1588773-08-3	Expiry Date:	May 19, 2030
Molecular Formula:	C ₃₁ H ₄₆ O ₃	Storage:	-20°C±5°C Protected from light and Sealed
Molecular Weight:	466.70	Shipping Condition:	Shipping with Ice Packs

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	Pale Yellow Sticky Liquid
Identification	HRMS&HNMR	Confirmed
Purity	HPLC	99.409%
Water Content	Karl Fischer	0.15%
Residual Solvents	NMR	1.19% dichloromethane
Assay		98.1%

Comment:

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

Assay (%) = (100%-Water Content-Residual Solvents) * Purity HPLC (%) / 100%

Water Content and Residual Solvents are considered as absolute effect, HPLC purity is considered as relative effect.

Signature:

Prepared by:

Koi

Reviewed by:

Lisa

Approved by General Manager:

David

Date: May 20, 2026

Date: May 20, 2026

Date: May 20, 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>

