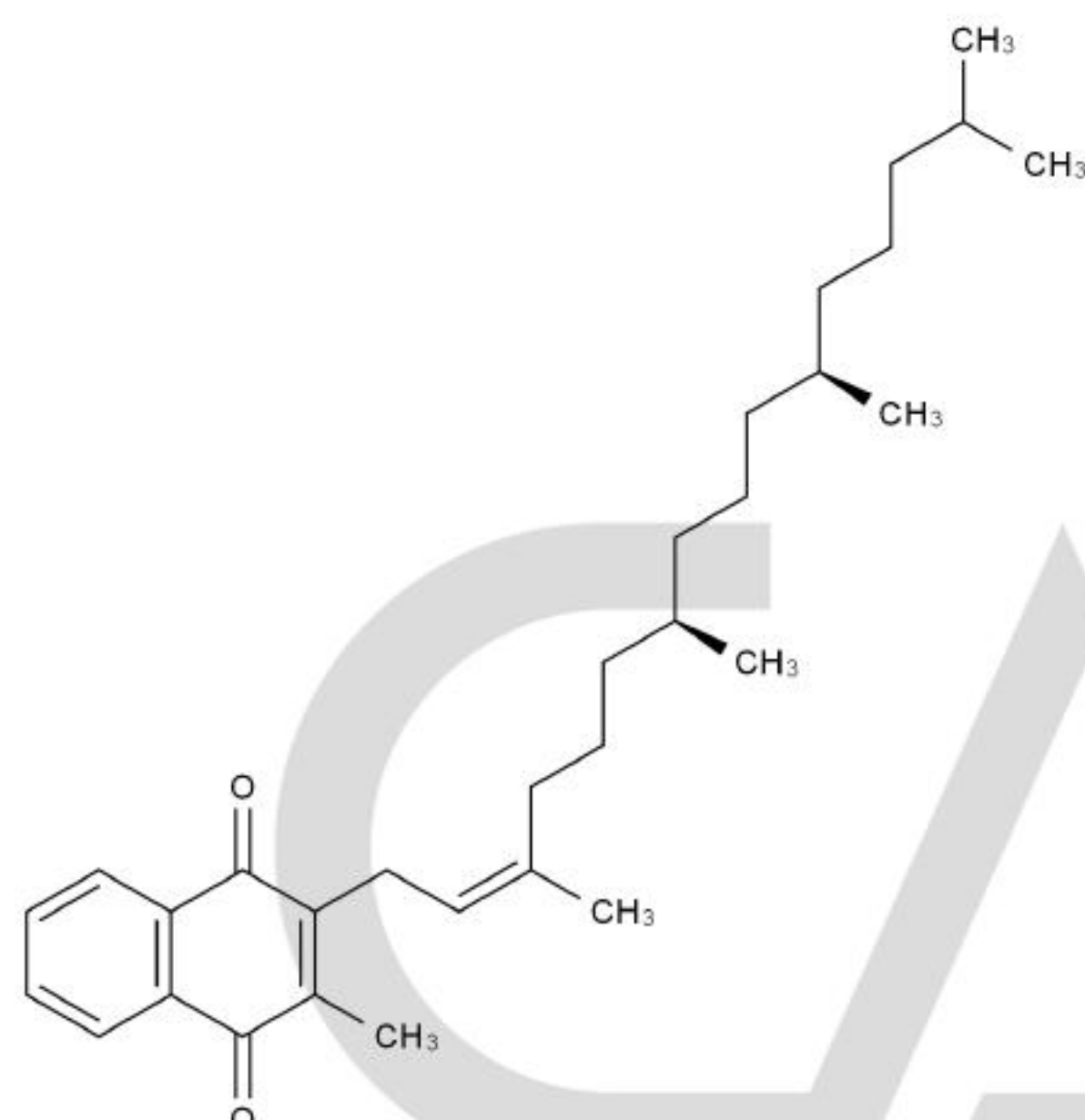


Certificate of Analysis

Reference Material & Standard

Product Name:	Vitamin K1 Impurity 8	Catalogue Number:	C4X-22078
Synonyms:	N/A	Lot Number:	0813-RH-0049
CAS Number:	16033-41-3	Expiry Date:	Jan 08, 2030
Molecular Formula:	C ₃₁ H ₄₆ O ₂	Storage:	-20°C±5°C Protected from light and Sealed
Molecular Weight:	450.70	Shipping Condition:	Shipping with Ice Packs

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	Yellow Oil
Identification	HRMS&UV&HNMR	Confirmed
Purity	HPLC	98.037%
Water Content	Karl Fischer	0.46%
Residual Solvents	NMR	0.45% methanol and 2.71% dichloromethane
Assay		94.5%

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:

Hin Lam

Reviewed by:

Lisa

Approved by General Manager:

David

Date: Aug 13, 2026

Date: Aug 13, 2026

Date: Aug 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

