

PRODUKTOVÁ SPECIFIKACE

Vitamín E – acetát

Description

DL-alpha-Tocopheryl Acetate (all-*rac*- α -Tocopheryl Acetate) is a viscous, practically odourless oil. Content of all-*rac*- α -tocopheryl acetate is 96.5-102.0 %. 1 mg of all-*rac*- α -Tocopheryl Acetate is equivalent to 1.0 IU of vitamin E.

Product identification

Chemical Names: 3,4-dihydro-2,5,7,8-tetramethyl-2-(4,8,12-trimethyltridecyl)-2H-1-benzopyran-6-yl acetate; [2,5,7,8-tetramethyl-2-(4,8,12-trimethyltridecyl)3,4-dihydro-2H-chromen-6-yl] acetate; 2,5,7,8-tetramethyl-2-(4,8,12-trimethyltridecyl)-3,4-dihydro-2H-1-benzopyran-6-yl acetate; all-*rac*-2,5,7,8-Tetramethyl-2-(4,8,12-trimethyltridecyl)-3,4-dihydro-2H-1-benzopyran-6-yl acetate; 2,5,7,8-tetramethyl-2-(4,8,12-trimethyltridecyl)-chroman-6-yl acetate

Synonyms: all-*rac*- α -Tocopheryl Acetate; *dl*- α -Tocopheryl Acetate; (2*RS*,4'*RS*,8'*RS*)- α -tocopheryl acetate; (*RS*,*RS*,*RS*)- α -tocopheryl acetate; Vitamin E Acetate; Vitamin E

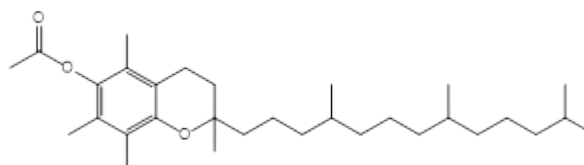
CAS No.: 7695-91-2

EINECS No.: 231-710-0

INCI Name: tocopheryl acetate

Empirical Formula: C₃₁H₅₂O₃

Molecular Mass: 472.73 g/mol



Specifications

Appearance:	clear, viscous liquid
Colour:	colourless to yellow or greenish-yellow
Identity:	corresponds
Optical rotation:	-0.01° - +0.01°
Acidity:	max. 1.0 mL 0.10 N NaOH
Residual Solvents:	
• Toluene	max. 80 ppm
• Pyridine	max. 80 ppm
Related Substances (Ph. Eur.):	
• Impurity A:	max. 0.5 %
• Impurity B:	max. 0.6 %
• Impurity C (free tocopherol):	max. 0.5 %
• Impurities D and E:	max. 1.0 %
• Any other impurity:	each max. 0.25 %
• Total:	max. 2.5 %
Assay (Ph. Eur.):	96.5 - 102.0 %
Assay (USP/FCC):	96.0 - 102.0 %

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Solubility

DL-alpha-Tocopheryl Acetate is practically insoluble in water, and freely soluble in alcohol, chloroform, acetone, ether and vegetable oils.

Stability and Storage

DL-alpha-Tocopheryl Acetate is fairly stable to air and heat but is sensitive to light and alkalis. The product may be stored for 48 months from the date of manufacture in the unopened original container and at a temperature below 25 °C. The 'best use before' date is printed on the label.

Uses*

For capsules and cosmetic preparations.

**Product regulatory status and clearance vary depending on countries, check with regional DSM RA for local status. More details can be found on the product technical uses in the regional product catalogue/customer portal. This product is not supported for use in pharmaceutical applications because product quality is assured with Food GMP standards.*

Compendial Requirements

DL-alpha-Tocopheryl Acetate complies with the specification requirements stipulated in the USP, FCC and Ph. Eur. when tested according to these monographs.

Safety

This product is safe for the intended use. Avoid ingestion or direct contact by applying suitable protective measures and personal hygiene.

For full safety information and necessary precautions, please refer to the respective DSM Material Safety Data Sheet.

This document is valid without signature.

Disclaimer: The information contained herein is to the best of our knowledge accurate. However, we refuse any liability for the application and use of further processed material containing our product. Solely the producer of the final product has to assume full responsibility according to the relevant local regulations. The content of this document is subject to change without further notice unless otherwise agreed in writing.

Produktová specifikace byla zpracována na základě podkladů od dodavatele.

Datum vydání: 05.06.2025

Zpracoval a schválil: PhDr. Lúbia Belásová, IČ: 88174956