

Product Information  
Product Data Sheet

# Mixed Tocopherols 95

## Description

Mixed Tocopherols 95 is a yellow to brownish-red, clear, viscous oil, with no distinctive odour. Typical contents of the various (*R,R,R*)-tocopherols in Mixed Tocopherols 95 are as follows:  $\alpha$ -Tocopherol: 0-15%;  $\beta$ -Tocopherol: < 5%;  $\gamma$ -Tocopherol: 55-75%;  $\delta$ -Tocopherol: 20-30%.

## Product identification

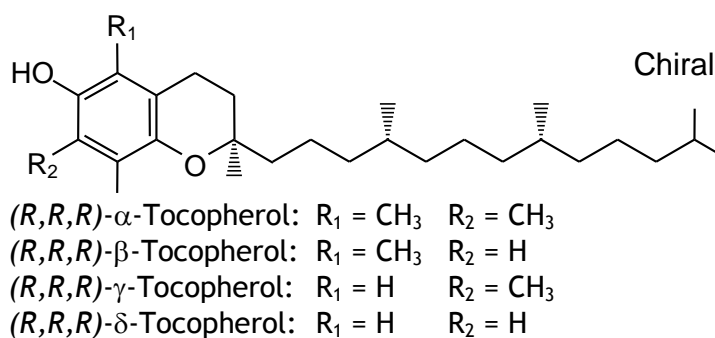
Product code: 50 0289 3

### Chemical names:

- 2,5,7,8-tetramethyl-2-(4,8,12-trimethyltridecyl)-6-chromanol (= 2*R*,4*R*,8*R*- $\alpha$ -tocopherol)
- 2,5,8-trimethyl-2-(4,8,12-trimethyltridecyl)-6-chromanol (= 2*R*,4*R*,8*R*- $\beta$ -tocopherol)
- 2,7,8-trimethyl-2-(4,8,12-trimethyltridecyl)-6-chromanol (= 2*R*,4*R*,8*R*- $\gamma$ -tocopherol)
- 2,8-dimethyl-2-(4,8,12-trimethyltridecyl)-6-chromanol (= 2*R*,4*R*,8*R*- $\delta$ -tocopherol)

**Synonyms:** (*R,R,R*)-Tocopherols [(*R,R,R*)- $\alpha$ -, (*R,R,R*)- $\beta$ -, (*R,R,R*)- $\gamma$ - and (*R,R,R*)- $\delta$ -tocopherol]; *d*-tocopherols; Tocopherols Excipient; tocopherol-rich extract; mixed tocopherols, concentrate of natural origin

E No.: E 306



## Specifications

Appearance:	yellow to brownish-red, clear, viscous oil
Identity:	corresponds
Specific rotation [ $\alpha$ ] <sub>D</sub> <sup>25</sup> :	not less than +20°
Acidity:	≤ 0.1 ml 0.1 N NaOH <sub>(aq)</sub>
Heavy metals:	max. 10 ppm
Lead:	max. 1 ppm
Total tocopherol content:	min. 95%

## Product Information

### Product Data Sheet

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## Solubility

Mixed Tocopherols 95 is virtually insoluble in water, soluble in ethanol, acetone, chloroform and ether, and soluble in lipophilic solvents and in oils and fats.

## Stability and storage

Mixed Tocopherols 95 is sensitive to air and light. The product may be stored for 36 months from the date of manufacture in the unopened original container (which is sealed under inert gas) and at a temperature below 15 °C. The 'best use before' date is printed on the label. Keep container tightly closed. Once opened, use contents quickly. On storage, some darkening may occur which, however, does not affect the chemical stability of the product.

## Uses

As an antioxidant for edible fats and oils.

## Compendial compliance

Mixed Tocopherols 95 meets all requirements of the FCC and JECFA when tested according to these compendia.

## 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.

Product Information  
Product Data Sheet

## Mixed Tocopherols 95

### Legal notice

The information given in this publication is based on our current knowledge and experience, and may be used at your discretion and risk. It does not relieve you from carrying out your own precautions and tests. We do not assume any liability in connection with your product or its use. You must comply with all applicable laws and regulations, and observe all third party rights.

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## Product Data Sheet

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### Additional information

To find out more about our ingredients, please contact your nearest DSM Nutritional Products office.

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