

Vitamin E Acetate SD 50

Human Nutrition


The Chemical Company

Chemical names

DL- α -tocopheryl acetate,
DL-alpha-tocopherol acetate, all-rac-alpha-tocopherol acetic acid ester, racemic 5,7,8-trimethyltolcol acetate

| | |
|-------------------|------------|
| CAS No. | 52225-20-4 |
| EINECS No. | 231-710-0 |

Product number

10304084

Units

1 mg of DL- α -tocopheryl acetate = 0.67 D- α -TE
= 1.00 former USP units

Description

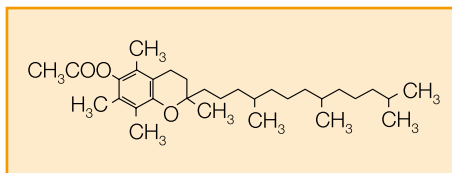
White to creamy white powder with a characteristic mild odor.

Composition

The dry powder consists of DL- α -tocopheryl acetate embedded in a matrix of lactose and caseinate. It contains glycerin monostearate (E 471) and sodium hydroxide as processing agent as well as tricalcium phosphate (E 341) as an anti-caking agent.

Solubility

The product can be dissolved both in cold (10°C) and warm (35-40°C) water, to form a stable milky emulsion. It is virtually insoluble in organic solvents.



$C_{31}H_{52}O_3$ Molar mass 472.8 g/mol

Specifications

| | |
|-----------------|---|
| Appearance: | conforms |
| Assay: | min. 50% DL- α -tocopheryl acetate (= 500 former IU of vitamin E or 336 α -TE per gram) |
| Loss on drying: | \leq 3% (4 hours at 88°C) |
| Acidity (USP): | conforms |

Monographs

The active ingredient complies with the current "all-rac-alpha-tocopheryl acetate" Ph.Eur., "Vitamin E" USP, and "all-rac-alpha-tocopheryl acetate" FCC monographs.

Particle-size distribution

max. 30% smaller than 63 μ m (230 mesh USP)
min. 70% smaller than 250 μ m (60 mesh USP)

Bulk density

0.4-0.55 g/ml

Stabilization/Stability

Stored in the unopened original packaging at room temperature (max. 25°C), the product is stable for at least 36 months.

Standard packaging

5 and 25 kg.

Please see appendix I for further information.

Storage

The product should be stored tightly sealed in the original packaging at max. 25°C, dry place.

Applications*Dietary supplements:*

The product is suitable for the direct compression of chewable tablets, sugar and film-coated tablets as well as hard gelatin capsules. Due to its excellent dispersibility in cold water, it is also ideal for use in preparations which need to be dissolved or dispersed in water prior to use such as low-acid or acid-free instant drink granules.

Food products:

Food products e.g. children's food, except for non cereal based Infant Food formulations in the EU, dietetic products, food products for athletes, dried milk, milk shake and cocoa powder as well as vitamin mixtures for the food industry. The content of milk protein in the product may trigger a reaction with acid resulting in undesirable precipitates. Therefore, it is not suitable for the production of acidic juices, effervescent tablets and instant drink granules.

Note

Vitamin E-Acetate SD 50 must be handled in accordance with the Safety Data Sheet.

The data contained in this publication are based on our current knowledge and experience. In view of the many factors that may affect processing and application of our product, these data do not relieve processors from carrying out their own investigations and tests; neither do these data imply any guarantee of certain properties, nor the suitability of the product for a specific purpose. Any descriptions, drawings, photographs, data, proportions, weights etc. given herein may change without prior information and do not constitute the agreed contractual quality of the product. It is the responsibility of the recipient of our products to ensure that any proprietary rights and existing laws and legislation are observed.

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