Vitamin E Acetate

Human Nutrition

BASF
The Chemical Company

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

CAS No.	7695-91-2
EINECS No.	231-710-0

Product number
10074099

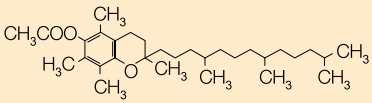
Units
1 mg of DL-α-tocopheryl acetate = 0.67 D-α-TE
= 1.00 former USP units

Description
Light yellow, viscous, virtually odorless oil.

Solubility
Soluble in hydrocarbons, alcohols, fats and oils; insoluble in water.

Monographs
The product complies with the current "all-rac-alpha-tocopheryl acetate" Ph.Eur., "Vitamin E" USP and "all-rac-alpha-tocopheryl acetate" FCC monographs.
A grade complying with the requirements of the Jap.Ph. may be supplied upon request.

Stabilization/Stability
In contrast to vitamin E alcohol, vitamin E acetate is resistant to heat and oxygen. It is not resistant to strong oxidizing agents or to alkalis because it undergoes saponification. Stored in the unopened original packaging at room temperature (max. 25°C), the product is stable for at least 36 months.



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

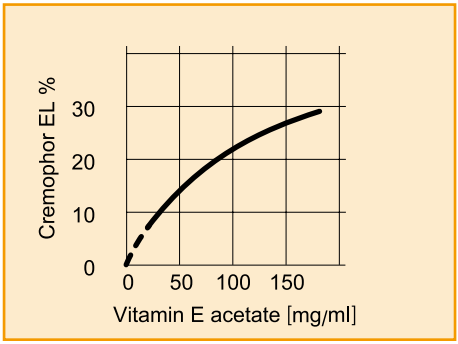
Specifications

Identification (GC):	conforms
Appearance:	conforms
Assay (Ph.Eur.):	96.5-102.0%
Assay (USP/FCC):	96.0-102.0%
Optical rotation:	-0.01° to +0.01°
Acidity (USP/FCC):	conforms
Related substances (Ph.Eur.; impurity A):	≤ 0.5 Area-%
Related substances (Ph.Eur.; impurity B):	≤ 1.5 Area-%
Related substances (Ph. Eur.; impurity C):	≤ 0.5 Area-%
Related substances (Ph.Eur.; impurity D+E in sum)	≤1.0 Area-%
Related substances (Ph. Eur.; any other impurity max. 0.25 Area-% each):	conforms
Related substances (Ph.Eur.; total impurities):	≤ 2.5 Area-%
Lead (FCC; max. 2 mg/kg):	conforms

Unless otherwise stated, the methods of analysis can be found in the Ph.Eur.

Standard packaging
5, 25, 50, 150 and 190 kg.
Please see appendix I for further information.

Storage
The product should be stored tightly sealed in a cool, dry place.



Applications
Dietary supplements:
For use in dietary supplements with a lipophilic base, e.g. ointments, creams, oils, soft gelatin capsules as well as aqueous preparations, e.g. syrups, drops, tonics, solubilizates and injectables in conjunction with a solubilizing agent such as Cremophor EL, Cremophor RH 40 or Solutol HS 15.

Pharmaceutical products:
EU Drug Master File is available.
Sterilization of the final product is required for parenteral use. Further information can be found in the book “Functions and Applications of BASF Pharmaceutical Excipients”.

Food products:
Used for the fortification of fats, e.g. regular and low-fat margarine as well as oils and fat-containing foods such as cakes, biscuits and dairy products.

Cosmetics:
For use in cosmetic emulsions such as suncare products, body lotions, face, hand and body creams, hair care products as well as skin oils and other preparations including decorative cosmetics, e.g. anti-chap lipsticks, mascara, eye shadow, rouge, face powder and foundation cream.
A solubilizing agent, e.g. Cremophor RH 40 is required in aqueous and aqueous/alcoholic preparations such as face water and gels.

Note
Vitamin E Acetate must be handled in accordance with the Safety Data Sheet.