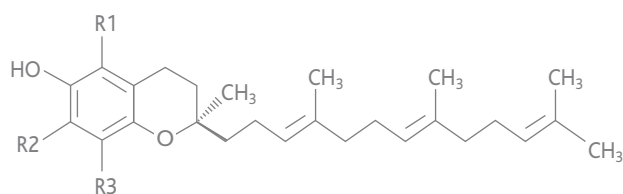


# Eastman NuTriENE™ ME

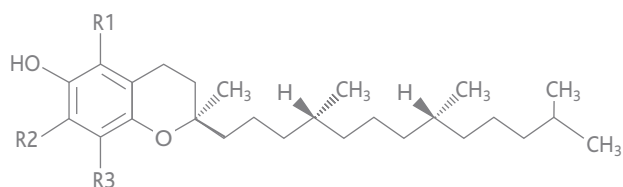
microencapsulated tocotrienols

## Composition

Eastman NuTriene™ ME microencapsulated tocotrienols are in a dry form especially designed for incorporation into tablets, hard gelatin capsules, and other forms of dietary supplements. NuTriene™ tocotrienols oil is combined with food-grade starch and silica (a flow agent) in a solvent-free process to create a microencapsulated flowable, nondusting, and stable product. NuTriene™ ME microencapsulated tocotrienols supply a mixture of naturally occurring tocotrienols and tocopherols extracted and concentrated from rice bran oil, a common cooking oil in many Asian countries.



Tocotrienol



Tocopherol

	R1	R2	R3
Alpha (α)	CH <sub>3</sub>	CH <sub>3</sub>	CH <sub>3</sub>
Beta (β)	CH <sub>3</sub>	H	CH <sub>3</sub>
Gamma (γ)	H	CH <sub>3</sub>	CH <sub>3</sub>
Delta (δ)	H	H	CH <sub>3</sub>

## Properties<sup>a</sup>

### Tocotrienol/Tocopherol

Total tocotrienols Not less than 50 mg/g

### Content

Total tocopherols Not less than 50 mg/g

d-Alpha tocopherol Not less than 20 mg/g

International units (IU)/g 30

Appearance Powder, flowable

Color White-to-golden

Odor Characteristic, slight odor

Bulk density Not less than 0.35 g/mL

Moisture, L.O.D. Not more than 5%

Peroxide value Not more than 10 meq/kg

<sup>a</sup>See current sales specification 21746-1.

## Storage/Stability

Store in a tightly closed container. Protect from excessive heat, moisture and oxygen.

Material stored in original unopened containers past the shelf life should be retested prior to use.

Previously opened and resealed containers may be nitrogen purged and stored in a cool, dry place to reduce the risk of oxidation. The primary decomposition mechanism for tocopherols and tocotrienols is oxidation. This mechanism is catalyzed by heat, acid, alkali and metal ions. Store in airtight containers and avoid exposure to temperatures above 40°C (104°F). Handling and processing controls should minimize exposure to air and heat.



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## **Packaging**

Eastman NuTriene™ ME microencapsulated tocotrienols are packaged in CurTec wide-neck kegs, which come in 1, 10, and 25 kg sizes. Samples are available for evaluation purposes.

For additional information, contact an Eastman sales representative or someone in our Technical Service group at 1-800-Eastman (1-800-327-8626, Ext. 2987).

Material Safety Data Sheets providing safety precautions, that should be observed when handling and storing Eastman products, are available online or by request. You should obtain and review the available material safety information before handling any of these products. If any materials mentioned are not Eastman products, appropriate industrial hygiene and other safety precautions recommended by their manufacturers should be observed.

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