

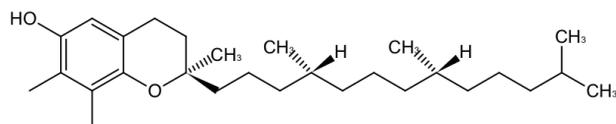
TC-70 Natural Mixed Tocopherols



Product Code: 300105

Natural Mixed Tocopherols:

- In the Vitamin E family of compounds.
- A full spectrum Natural Vitamin E, consisting of all 4 major natural Vitamin E homologues: d-alpha-, d-beta-, d-delta-, and d-gamma-tocopherol.
- Naturally found in vegetable oils, nuts, fish, and leafy greens.
- Alpha-tocopherols contained in mixed tocopherols are RRR-d- α -tocopherol, widely considered to be the most effective form of Vitamin E.
- Not a synthetically produced vitamin E but a natural extract from oilseeds.
- North American domestic raw material source and production.



d- γ -tocopherol

Natural Mixed Tocopherols:

- Cost-conscious blend of Natural Mixed Tocopherols standardized with organic sunflower oil.
- Low viscosity room temperature (60-70°F) pour point, easier to portion and blend than 90% tocopherol concentrates.
- Effective for stabilizing refined vegetable oils, fish oils, or animal fats.
- Consumption of Natural Mixed Tocopherols have been linked to:
 - Reduction of cancer risk.
 - Reduction of oxidative stress in the brain associated with learning disabilities.
 - Positive effects on blood serum LDL cholesterol.
 - A heart-healthy diet.

General Usage:

- Prevents oxidation & rancidity in oily or fat-containing foods and supplements.
- Protects sensitive flavor components to preserve taste & freshness. Used in pet treats, cosmetics, animal feeds, certified USDA organic products, essential oils, edible oils, and many oily and fat-containing foods.
- 100% natural solution for protecting against oxidation in foods.
- No regulatory usage limits in foods, unlike synthetic antioxidants such as BHA, BHT, or TBHQ.
- Depending on matrix, usage generally targets between 500-1500ppm of tocopherols.
- GRAS ingredients - Natural Mixed Tocopherols have long been a part of the human diet.
- Allergen-Free ingredients derived from highly refined oils.
- USDA Organic Compliant: Allowed as an ingredient up to 5% in or on processed product labeled as "organic" or "made with organic" under section §205.605 of the USDA National Organic Program.

About Our Tocopherols:

70% Natural Mixed Tocopherols produced by Organic Technologies are refined from edible vegetable oils, which are domestically sourced from North American oilseed crushing plants. Our products are made in the heart of the Midwest at our NSF certified for cGMP, Kosher-certified production facility in Coshocton, OH.

Description: Clear, yellow to brownish-red viscous oil derived from edible vegetable oils (e.g. soybean, canola, sunflower, corn)

Uses: Natural food-grade antioxidant for use in nutritional supplements, edible oils, foods, cosmetics, and animal feeds.

Storage Conditions: Store in tightly sealed opaque or translucent containers at ambient temperature. Avoid exposure to oxygen and light. Product can darken when exposed to heat, air and light. Avoid exposure to transition metals, alkali, or oxidizing agents.



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Typical Physical & Chemical Properties:

Attribute	Typical Value
Total Tocopherols	700 mg/g min.
Alpha Tocopherol	0-200 mg/g typical
Beta Tocopherol	0-100 mg/g typical
Delta Tocopherol	0-200 mg/g typical
Gamma Tocopherol	100-600 mg/g typical
Appearance	Reddish Viscous Oily Liquid
Identification Test (Tocopherol NF Method B)	Pass
Taste & Odor	Bland odor and taste (report as pass/fail)
Acidity	1 ml/g
Specific rotation	+20° min.
Heavy Metals	10 ppm max
Lead	2 ppm max
Arsenic	1 ppm max
Total Microbial Count	<10/g
E. Coli	Neg/10g
Salmonella	Neg/10g
Staphylococci	Neg/10g
Yeast	<10/g
Mold	<10/g
Ingredients:	Natural Mixed Tocopherols (% varies depending on recipe), Organic Sunflower Oil (% varies depending on recipe)

Package Sizes Available:

TC-70 300105	180 kg Openhead Lined Steel Drum
TC-70 300105	10 kg HDPE Pail
TC-70 300105	1 kg Aluminum Bottle
TC-70 300105	30 g Sample