

Tonalin[®] TG 80

Chemical name of active ingredient

Conjugated Linoleic Acid (CLA)

CAS-No.

| | |
|-----------|----------------------|
| 2540-56-9 | cis-9, trans-11 CLA |
| 2420-56-6 | trans-10, cis-12 CLA |

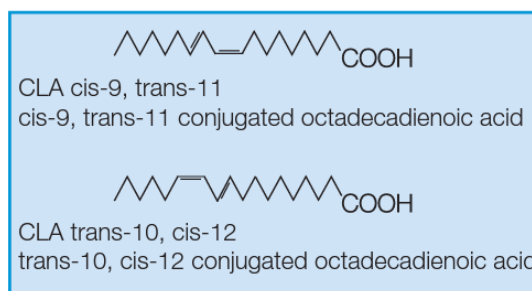
PRD-No.

30531865

Articles*

| | |
|----------|-------------------|
| 50209563 | 25 kg steel drum |
| 50209562 | 185 kg steel drum |

*packed under inert gas



$C_{18}H_{32}O_2$

Molar mass 280.44 g/mol

Country of origin

Germany

Description

Tonalin[®] TG 80 is a clear, fully transparent, colorless to slightly yellow oil at room temperature with characteristic taste and odor. It is comprised of glycerides containing typically 80 % conjugated linoleic acid. Tonalin[®] TG 80 is derived from safflower oil and contains a 50:50 ratio of the active conjugated linoleic acid isomers (C18:2 c9, t11 and C18:2 t10, c12).

Composition

Ingredients in descending order of weight:
Conjugated linoleic acid glycerides from safflower oil, tocopherol-rich extract (E 306).

Solubility

Insoluble in water; sparingly soluble in ethanol, miscible with organic solvents, vegetable oils and fats.

Specification

| | |
|-------------|----------------|
| Assay | |
| CLA content | 750 – 800 mg/g |

For further information see separate document: "Standard Specification" (not for regulatory purposes).

Standards

Product is kosher and halal. Produced under ISO 9001, FSSC 22000.

Regulations

Conjugated linoleic acid is approved for use as a dietary supplement ingredient in most countries. However, specific regulations on the product and its ingredients in the respective countries and for its intended use have to be observed. Tonalin® TG 80 is derived from not genetically modified raw materials and is thus not subject to labeling under EU Regulations (EC) 1829/2003 and 1830/2003.

Stability, Storage and Handling

Stored in its unopened original packaging at 2 – 25°C the product is stable for at least 36 months. The product is sensitive to atmospheric oxygen, light and heat. It should therefore be stored in the tightly sealed, lightproof packaging in a cool place. After opening of the original packaging, it should be repacked under inert gas. Usage as quickly as possible is recommended. A very light precipitation may occur at longer storage or at temperatures below 10 °C. This will not affect the quality of the product. Precipitation can be reverted by warming gently to 30 – 40 °C under nitrogen atmosphere and agitation. Conjugated linoleic acid is a drying oil that can polymerize in presence of oxygen, specifically if it gets into contact with blank metals such as iron, brass, copper etc. Processing and/or handling equipment in contact with conjugated linoleic acid should be of inert material such as stainless steel. Spills should be cleaned for example with water and detergent to avoid stains or varnishes of dried oil on equipment/packaging.

Applications

Dietary supplements:

Tonalin® TG 80 is intended for use in supplements and is recommended for use in liquid preparations such as pure oils, sirups or one-shot supplement beverages. It can also be used in dosage forms such as soft gelatin capsules.

Food and beverage products:

Tonalin® TG 80 is also intended for use in functional food and functional beverages with dairy products, being the main categories. It is almost neutral in taste and odor and is an ideal form for conjugated linoleic acid in food applications.

Notes

Tonalin® TG 80 must be handled in accordance with the Material Safety Data Sheet.

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