

**TRILWAX™ E****Erucamide**CAS NO. 112-84-5; 116749-29-2; 80399-99-1; 93050-58-9  
MOL WT. 337.58

**CHARACTERISTICS:** TRILWAX E is a refined Vegetable Oil based - Erucamide. TRILWAX-E is an excellent Slip Agent and a good Antiblocking agent for Polyolefins. It is used in paper and textile industry for water-proof as well as corrosion inhibitor in oil wells. It is used for the synthesis of organic chemicals and surfactants used in detergent, ore floating agent, fabric softener, anti-static agent, germicide, insecticide, emulsifier, anti-caking agent, lubricant and water treatment agent.

Erucic acid is the cis isomer of brassidic acid (also called cis-13-docosenoic acid belong to a monounsaturated fatty acid) derived from rape seed, wallflower seed, or mustard seed. It is insoluble in water but soluble in ethanol and methanol. Erucic acid is used as an intermediate to make chemicals such as triglycerides; erucamides; amines, behenic acid; behenyl alcohol erucyl alcohol, wide range of erucic acid metallic salts and esters, brassylic acid and pelargonic acid. End applications include lubricants, heat transfer fluids, surfactants, slip agents, emollients, cosmetics and coatings. It is also used in polyesters, plastics and nylons.

**Plastics Applications:** When TRILWAX-E is mixed with polymer, it reduces friction between the polymer and processing equipment and also between the polymer to polymer inter-surfaces. Due to its migration, a thin film of TRILWAX-E is formed on the surface of the finished product and this provides the slip effect and antiblock performance. TRILWAX-E (Erucamide) has lower volatiles and better high temperature performance than TRILWAX-O (Oleamide). This makes it particularly more useful for PP films applications because TRILWAX-E allows higher processing temperatures. The longer carbon chain of Erucamide causes a delayed and reduced migration in comparison to Oleamide, which is a required property, if printing or sealing is carried out directly after processing the film. Use rate for PE is 0.05%-0.3% and PP 0.05%-0.3%.

**TRILWAX E has various FDA approvals. Please inquire for details.**

**GENERAL DESCRIPTION:**

Appearance is light cream colored powder or microbeads.

Packaging 25 kg bags or 110lb fiber drums.

Storage At least 2 years.

Specific Gravity: 2.10 to 2.15

Flash Point: Non-Flammable

NFPA RATINGS: Health: 1; Flammability: ; Reactivity: 0

EINECS No. 206-103-9

SYNONYMS: Erucylamide; 13-Docosenamamide; 13-Docosenoic acid amide; Erucic acid amide; (Z)-Docos-13-enamide; (Z)-13-Docosenamamide; (13Z)-13-Docosenamamide; (Z)-Docos-13-enamide

\* Available in OR grade with wider color specification and lower pricing.

**TRILWAX E Benefits:**

98.5 % Pure – Highest purity

Light Color

Low Acid Value

Stock Product

**ASSAY ITEM SPECIFICATIONS**

<b>Solids</b>	<b>100% Active Powder/microbeads</b>
<b>Color</b>	<b>White powder/Pellet</b>
<b>Melt Point</b>	<b>83+ 5°C</b>
<b>Color (Gardner)</b>	<b>2.0 Max</b>
<b>Moisture</b>	<b>0.25% Max.</b>
<b>Acid Value</b>	<b>1.0 Max</b>
<b>Iodine Value</b>	<b>70-85</b>
<b>Total Amide Content</b>	<b>98.0% Min</b>



The information in this data sheet is meant as a suggestive guide in formulating and evaluation of performance. Customer takes responsibility in the decision to use product in desired application. The information is given to the best of our knowledge but without obligation. We are not liable for any wrong advice or any advice we may have failed to give. This data sheet becomes invalid as soon as a new edition has been published.

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