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Irganox[®] E 201

Vitamin E Polymer Antioxidant

Characterization

Irganox E 201 is Vitamin E, a primary (phenolic) antioxidant.

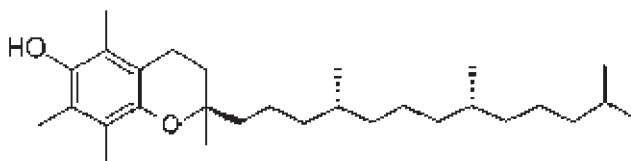
Chemical name

3,4-Dihydro-2,5,7,8-tetramethyl-2-(4,8,12-trimethyltridecyl)-2H-1-benzopyran-6-ol

CAS number

10191-41-0

Chemical formula



Molecular weight

430.7 g/mol

Applications

- HDPE packaging film and blow molding LDPE
- extrusion coating LLDPE packaging film Polyol/PUR

Features/benefits

Irganox E 201 is technical grade Vitamin E. Benefits include:

- Differentiate polyethylene food and medical packaging resins through the positive public perception of Vitamin E.
- Find excellent melt flow and color control during polymer processing.
- Offer optimal food shelf life due to the improved retention of polymer properties.
- Choose an antioxidant with inherently low migration and excellent extraction resistance.
- Potential to reduce total additive levels.
- Possibly offer better taste and odor properties in the final package.

Product forms

Yellow to brownish, viscous oil

Guidelines for use

For the stabilization of polyethylene food and medical packaging applications Irganox E 201 offers a highly efficient and attractive choice. Only 0.01 % of Irganox E 201 provides equal melt flow control as 0.05 % of the state-of-the-art Irganox 1010. The option to leverage the excellent consumer perceptions of Vitamin E into polyethylene at no cost or performance penalty makes Irganox E 201 an attractive choice. 0.01 % of Irganox E 201 can be used with 0.04 % to 0.05 % Irgafos 168 for optimum performance.

Physical Properties

Melting range	1 – 4 °C
Solubility	Insoluble in water; soluble in alcohol; miscible with chloroform, acetone, ether, and oils
Acid value:	max. 2
Assay (gas chromatography):	min. 92 %

Health & Safety

Irganox E 201 exhibits a very low order of oral toxicity and does not present any abnormal problems in its handling or general use.

Detailed information on handling and any precautions to be observed in the use of the product(s) described in this leaflet can be found in our relevant health and safety information sheet.

Note

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