



Ciba® IRGANOX® PS 802

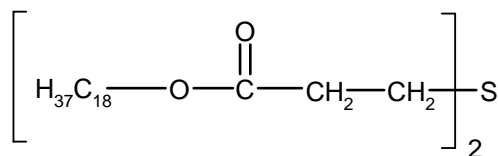
Thiosynergist Heat Stabilizer

Characterization IRGANOX PS 802 is a dialkyl ester of thiodipropionic acid. It is used as a heat stabilizer in combination with a phenolic antioxidant.

Chemical Name Dioctadecyl 3,3'-thiodipropionate.

CAS Number 693-36-7

Structure IRGANOX PS 802



Molecular weight 683

Applications Polymer materials requiring long-term thermal stability
Polyethylene power cables
XLPE power cables
HDPE pipe
Polypropylene
Polyolefin under-hood automotive applications
Styrene homo- and copolymers,
Adhesives

Features/ Benefits IRGANOX PS 802 used in combination with a primary phenolic antioxidant provides long-term heat stabilization to polymeric materials. With the lowest volatility of all thiosynergists, it combines excellent performance with low odor.

Product Forms	Code:	Appearance:
	IRGANOX PS 802 FL	white to slightly yellow flake

Guidelines for use In general IRGANOX PS 802 can be used to improve the long-term heat stability of polymers at recommended levels of 0.05-1%.
In peroxide cross-linked power cables, 0.02 - 0.03% IRGANOX PS 800 in combination with 0.02-0.03% IRGANOX 1035.

Physical Properties

Melting Range	64-67°C
Flashpoint	257°C Markusson
Vapor Pressure (20°C)	6.6 E-6 Pa
Bulk density (FL Form)	400-450 g/l
Solubility (20°C)	g/100g Solution
Water	< 0.01
Acetone	1
Chloroform	20
Ethanol	1.5
Ethyl acetate	1.7
n-Hexane	1.8
Methanol	1
Methylene chloride	13
Toluene	10

Handling & Safety

In accordance with good industrial practice, handle with care and prevent contamination of the environment. Avoid dust formation and ignition sources.
For more detailed information please refer to the material safety data sheet.

Registration

IRGANOX PS 802 is listed on the following inventories:

Australia: AICS	Canada: DSL	Europe: EINECS
Japan: MITI	Korea: ECL	Philippines: PICCS
USA: TSCA		

IRGANOX PS 802 is approved in many countries for use in food contact applications.
For detailed information refer to our Positive List or contact your local sales office.

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