

PowerSorb™ 312 UV Absorber

Introduction PowerSorb™ 312 provides excellent light stability in plastics and coatings. It is less discoloring than conventional UV absorbers, even in alkaline environments and in the presence of metal catalyst residues.

Chemical Name N-(2-Ethoxyphenyl)-N'-(2-ethylphenyl)oxamide

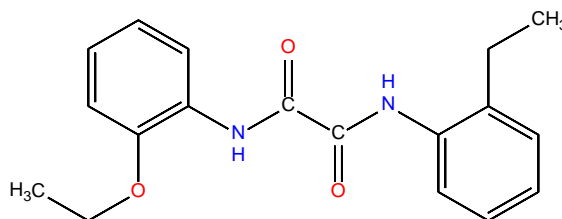
Synonym:

Ethanediamide, N-(2-ethoxyphenyl)-N'-(2-ethylphenyl)-
N-(2-Ethoxyphenyl)-N'-(4-ethylphenyl)-Ethylene diamide

CAS Number 23949-66-8

EINECS Number 245-950-9

Chemical Structure



Chemical Formula C₁₈H₂₀N₂O₃

Molecular Weight 312

Physical Properties

Appearance	Pale Yellow Powder
Specific Gravity [20°C]	1.26
Vapor Pressure [20°C, Pa]	5.5E-8
Melting Point (°C)	124-128
Boiling Point (°C)	Min.400
pH-value	5.4
Volatile Loss (%)	Max.0.5
Color of Solution 460nm (%)	Min.95
Color of Solution 500nm (%)	Min.97
Purity (%)	98

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Solubility

Solubility [20°C]	% w/w
Acetone	4
Benzene	7
Chloroform	20
Ethanol	0.3
n-Hexane	0.2
Methanol	0.4
MMA	4
Dichloromethane	18

Benefits & Applications

PowerSorb™ 312 is a UV absorber of the oxanilide class which is effective for the light stabilization of a broad range of plastics and coatings. Plastic applications include polyamides, PVC (rigid and flexible), polyesters (thermoplastic and thermoset), polyurethanes, adhesives, and sealants. The product is also suitable for use in powder coatings and solvent-borne coatings for automotive, industrial, and architectural applications.

Handling & Storage

In accordance with good industrial practice, handle with care and avoid unnecessary personal contact. Avoid continuous or repetitive breathing of dust. Use only with adequate ventilation. Protect skin. Avoid dust formation and ignition sources.

This product may be stored up to one year in a sealed container. Containers should be stored in a cool, dry area. Extended storage at elevated temperatures or exposure to direct heat or sunlight could reduce product life. Keep containers sealed when not in use.

For more detailed information please refer to the material safety data sheet.

Packing

PowerSorb™ 312 is supplied in 20Kg Paper Bag, 20Kg PE Bag, 25Kg Carton Box, and 50Kg Fiber Drum.

Note

All information in the leaflet is based on our present knowledge and



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experience. We reserve the right to make any changes according to technological progress or further developments. Performance of the product described herein should be verified by testing.

We specifically disclaim any other express or implied warranty of fitness for a particular purpose or merchantability.

We disclaim liability for any incidental or consequential damages.