

PowerSorb™ 312

New Materials Creating New Performances

**Quality Products.
Dependable Service.**

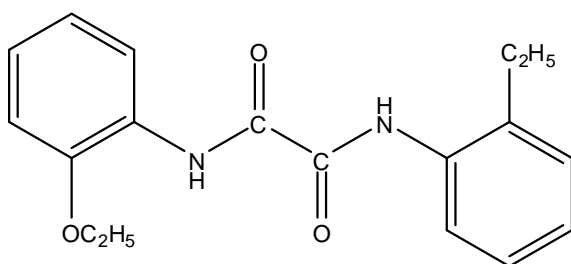
CHEMICAL NAME

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

Synonym: Ethanediamide, N-(2-ethoxyphenyl)-N'-(2-ethylphenyl)-;

N-(2-Ethoxyphenyl)-N'-(4-ethylphenyl)-Ethylene diamide

CHEMICAL STRUCTURE



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.

PHYSICAL PROPERTIES

CAS No.	23949-66-8
EC No.	245-950-9
Formula	C ₁₈ H ₂₀ N ₂ O ₃
Molecular Weight	312
Specific Gravity _[20°C]	1.26
Vapor Pressure _[20°C, Pa]	5.5E-8
Melting Point(°C)	124-128
Boiling Point(°C)	Min.400

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pH-value	5.4
Volatile Loss (%)	Max.0.5
Color of Solution 460nm (%)	Min.95
Color of Solution 500nm (%)	Min.97
Appearance	Pale Yellow Powder
Min. Purity	98%

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
Toluene	5.5
Water	<0.01

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 AND 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.

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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 20 kg net/carton box.

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