

GENSCENT OB-1 Fluorescent Whitening Agent

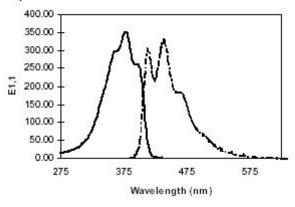
Characterization	-	ular weight optical brightener (fluorescent penzoxazol class, suitable for the optical is of processing	
Chemical Name CAS Number Structure	4,4'-bis(benzoxazol-2-yl) stilbene 1533-45-5 GENSCENT OB-1		
Molecular Weight	414.4		
Applications	variety of polymer substrates, espe well as polycarbonate, acrylics, styr		
Features / Benefits	 GENSCENT OB-1 features excellent resistance to heat, exceptional Whitening properties, good light fastness and low volatility. It has a brilliant neutral white cast and features good compatibility in various substrates. The product is especially suitable for fibers and films. GENSCENT OB-1 enhances the whiteness of the substrate. In combination with dyes, the product produces particularly bright shades. Its excellent heat resistance renders GENSCENT OB-1 suitable for all relevant processing conditions. It is suitable for packaging applications must be observed. Due to it's excellent chemical stability and low volatility, GENSCENT OB-1 is especially suitable for use in polyester polymerization, however, depending on whether DMT or TPA type of synthetic procedure is used different methods of process introduction must be chosen: Details are available on request. 		
Product Forms	Code: GENSCENT OB-1	Appearance: Yellowish crystalline powder	
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Guidelines for use	The use levels of GENSCENT OB-1 range between 0.005-0.1%, depending
	on substrate and whitening performance requirements. Standard
	requirements for polyester fibers are approx. 2.02%. More yellowish
	products or recycling grades may use concentrations up to 0.035% of product.
	GENSCENT OB-1 can be used alone or in a variety of blends and
	combinations with processing, heat and light stabilizers.

Physical Properties

Melting Range	359±5°C
Specific Gravity (20°C)	1.35
Vapor pressure (20° C)	10E-17 mbar
λ_{max} (CHCI ₃)	374nm
Solubility	wt%
Acetone	<0.01
Chloroform	<0.01
n-Hexane	<0.01
Methanol	<0.01
Water	<0.01
1,1,1-Trichlorethane	<1
N-Methyl-pyrrolidon	<1
Volatility (15mg pure substance;	TGA,
Heating rate 20° C/min in air)	
Weight loss (%)	Temperature(° C)
0.2	300
2.2	350
19.4	400

Absorption and Emission Spectra in DMSO



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 materials safety

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data sheet.

				GENSCENT OB-1 is listed on listed on the following inventories			
Australia:	AICS	Canada:	DSL	China: ENCS			
Europe:	EINECS	Japan:	MITI	Korea: ECL			
Philippines:	PICCS	USA:	TSCA				

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