TECHNICAL DATA SHEET

DHHB

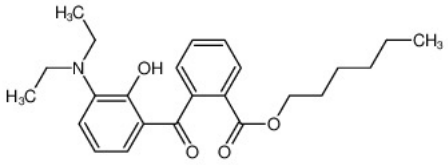
Product Name: Diethylamino Hydroxybenzoyl Hexyl Benzoate

Product Code: MFSORB 512

Production Site: MFCI Co.,Ltd.

Properties

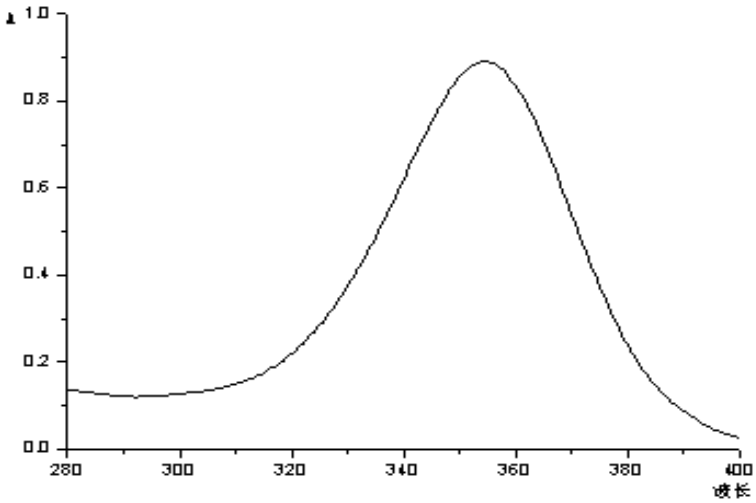
Structure:



Chemical Name:	2-[4-(Diethylamino)-2-hydroxybenzoyl] benzoic acid hexyl ester
INCI Name:	DIETHYLAMINO HYDROXYBENZOYL HEXYL BENZOATE
Other names:	DHHB
CAS No.:	302776-68-7
EINECS No.:	443-860-6
Chemical Formula:	$C_{24}H_{31}NO_4$
Molecular Weight:	397.51

UV Characteristics

UV Characteristics:



Physical Property

Appearance: White to light salmon color granular powder

Odour:	Weakly characteristic odour
Identification (UV):	352nm~356nm
Purity (HPLC):	98.0% min
Gardner Colour: (in a molten manner)	8.2 max
Specific Absorption(E1/1): (354nm in ethanol)	910~940
Tap Density:	0.58g/ml~0.70g/ml
Residual solvents:	Conform

Application

DHHB' s function played in sunscreen products include:
(1) With high absorption effect on UVA
(2) With strong protective effect for free radical produced by UV.
(3) Enhance the SPF value of UVB sunscreen
(4) With very good light stability, maintain effectiveness for long time
DHHB defilade of UV range covered the whole UVA, from 320 to 400 nm wavelength, the maximum absorption peak is at 354 nm. So for the shielding, DHHB has the same effect as the current best sunscreen Avobenzone. However, DHHB's stability in the sun is much better than Avobenzone, because Avobenzone's ability to absorb ultraviolet radiation will quickly reduce in the sun. Therefore in the formula you need to add other UV absorber as a light stabilizer, in order to reduce the loss of Avobenzone. And it is not necessary to worry about this problem when using DHHB.
DHHB instead of Avobenzone, become a model UVA sunscreen agent, with better light stability than Avobenzone, do not need to add Sunsafe-MBC, SUNSAFE - OMC compound, lower cost, better effect.

Packaging

25kgs/drum

Storage

DHHB should be stored in a closed system, and be kept in a dry dark place without any light exposure. The shelf life of DHHB is two years in original, unopened containers.

HS Code

2933290090

NOTE

The data submitted in this publication are based on the current state of our knowledge and experiences. They do not constitute a guarantee in the legal sense of the term and, in view of the manifold factors that may affect processing and application, don't relieve those to whom we supply our products from the responsibility of carrying out their own tests and experiments. Any relevant patent right and existing legislation and regulations must be observed.