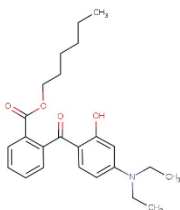


Technical Data Sheet

10 March 2023

Product name:	DHHB
Product Form:	Solid
Chemical name:	hexyl 2-[4-(diethylamino)-2-hydroxybenzoyl]benzoate
Synonym:	Benzoic acid, 2-[4-(diethylamino)-2-hydroxybenzoyl]-, hexyl ester; Uvinul A Plus; Diethylamino Hydroxybenzoyl Hexyl Benzoate; UV-512
CAS No:	302776-68-7
EINECS No:	443-860-6
Molecular formula:	C ₂₄ H ₃₁ N _O ₄
Molecular weight:	397.5
Structure formula:	



Chemical Specification

Appearance	White to light salmon powder
Odour	Faintly characteristic odor
Identification (UV)	353 nm – 256 nm
Gardener colour	8.2 max.
Specific absorption (E1/1)	910 – 940
Assay (GC, %)	99.0 min.
Residual solvents	Conform
Microbiology	
Total aerobic micro count (TAMC) (cfu/g)	100 max.
Total yeast and mold count (TYMC) (cfu/g)	100 max.
Pathogens	
Escherichia coli (in 1g)	Negative
Salmonella (in 1g)	Negative
Candida albicans (in 1g)	Negative
Staphylococcus aureus (in 1g)	Negative
Pseudomonas aeruginosa (in 1g)	Negative
Heavy Metals	
Nickel (ppm)	1 max.

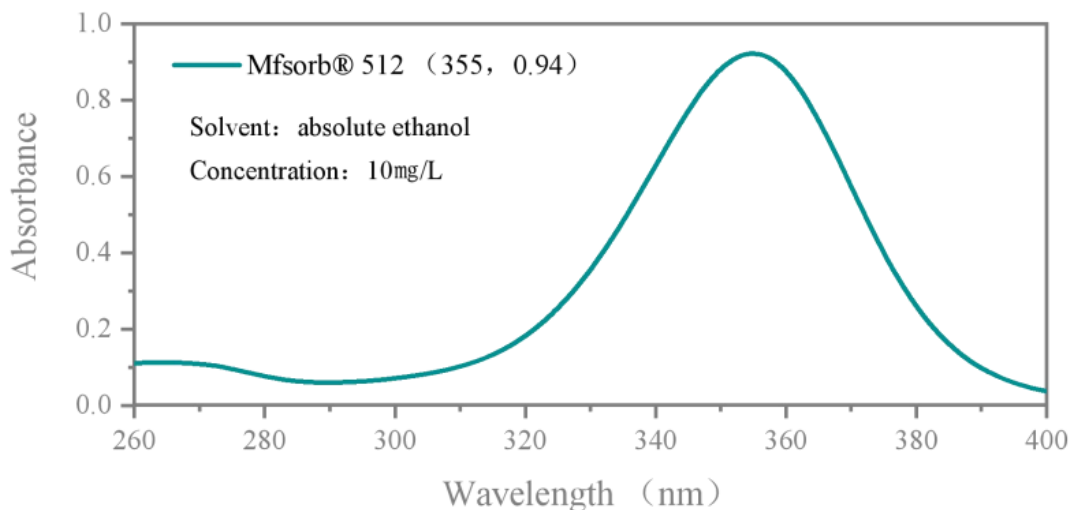
Mercury (ppm)	1 max.
Antimony (ppm)	1 max.
Lead (ppm)	5 max.
Arsenic (ppm)	2 max.
Cadmium (ppm)	1 max.
Cobalt (ppm)	1 max.
Chrome (ppm)	1 max.
Total (ppm)	10 max.

Residual solvents: meet the requirements of ICH/USP

Packing: In 25kgs drum, 18drums(450kgs net) on pallet

Shelf life: 24months

UV Characteristics:



Feature and Application:

DHHB is a highly effective UVA filter with strong protective effect for free radical produced by UV. It is very photo stable and compatible with other UV filters. It can be incorporated in sunscreens, also in day care products as well as skin lightening products