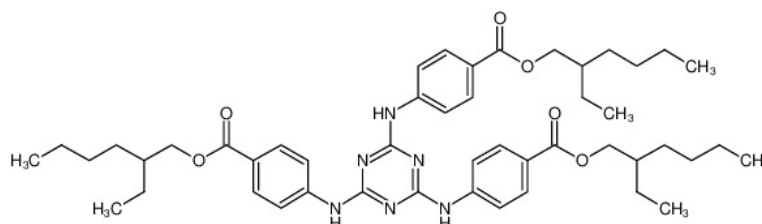


## ETHYLHEXYL TRIAZONE

**Product Name:** Ethylhexyl Triazone  
**Product Code:** MFSORB 507  
**Production Site:** MFCI (Huanggang) Co., Ltd.

### Properties

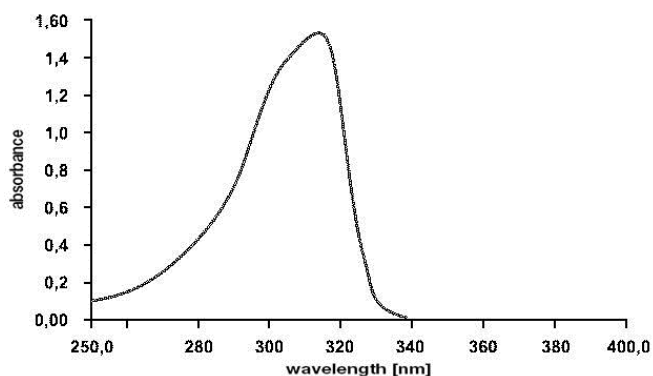
Structure:



**Chemical Name:** 4,4',4''-(1,3,5-Triazine-2,4,6-triyltriimino) trisbenzoic acid tris(2-ethylhexyl) ester  
**INCI Name:** ETHYLHEXYL TRIAZONE  
**Other names:** Octyl triazone, UVT-150  
**CAS No.:** 88122-99-0  
**EINECS No.:** 402-070-1  
**Chemical Formula:** C<sub>48</sub>H<sub>66</sub>N<sub>6</sub>O<sub>6</sub>  
**Molecular Weight:** 823.07

### UV Characteristics

UV Characteristics:



### Physical Property

**Appearance:** White to light yellow powder  
**Identification:** **A.** Infrared Absorption <197K>  
**B.** The retention time of the major peak in the chromatogram of the Assay preparation corresponds to that in the chromatogram of the Standard preparation, as obtained in the Assay.  
**Melting point** 128.0°C~132.0°C

Water: 0.5% max  
Specific Extinction: 1500 min  
(1%,1cm,at 314nm,in ethanol)  
Color: 2.0max  
(Gardner ,100g/L in acetone)

**Chromatographic Purity (HPLC)**  
Purity: 99.0% min  
Individual Impurity: 0.5% max  
Total Impurities: 1.0% max

**Residual Solvents (GC)**  
Conform

**Application** Ethylhexyl Triazone is a highly effective UV-B filter with an exceptionally high absorptivity of over 1,500 at 314 nm. Because of its high A1/1 value, only small concentrations are required in cosmetic suncare preparations, to achieve a high SPF value. Concentrations up to 3% are recommended. Besides the polar nature of this product gives it good affinity to the keratin in the skin, so that formulations in which it is used are particularly water-resistant. This property is further enhanced by its complete insolubility in water. Ethylhexyl Triazone can crystallize after prolonged storage, as a result of supersaturation. Ethylhexyl Triazone has very good light stability. It remains practically unchanged, even when it is exposed to intense radiation. Ethylhexyl Triazone is usually dissolved in the oily phase of the emulsion.

**Packaging** 25kgs/carton

**Storage** Preserve in tight, light-resistant containers. The shelf life of Ethylhexyl Triazone is two years in original, unopened containers.

**HS Code** 2933699090

**NOTE** The data submitted in this publication are based on our current knowledge and experience. 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, do not relieve those to whom we

supply our products from the responsibility of carrying out their own tests and experiments. Any relevant patent rights and existing legislation and regulations must be observed.