

Printing & Packaging

Technical Data Sheet

Tinuvin[®] 171



Product Description

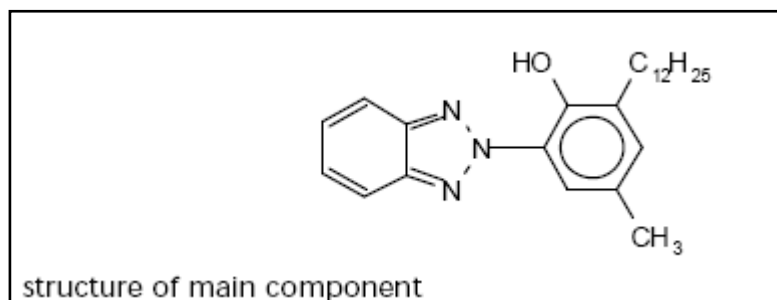
Tinuvin[®] 171 is a liquid UV light absorber of the hydroxyphenyl-benzotriazole class. Since its absorption spectrum does not tail significantly into the visible region, it is an ideal UV absorber for those systems where initial yellowing must be kept to a minimum.

Key Features & Benefits

- Liquid hydroxyphenyl-benzotriazole UVA designed for use in photographic applications
- Low tendency to crystallize in formulations allows higher loadings
- High extinction in the UVA region

Chemical Structure

Phenol, 2-(2H-benzotriazol-2-yl)-6-dodecyl-4-methyl-, branched and linear



Properties

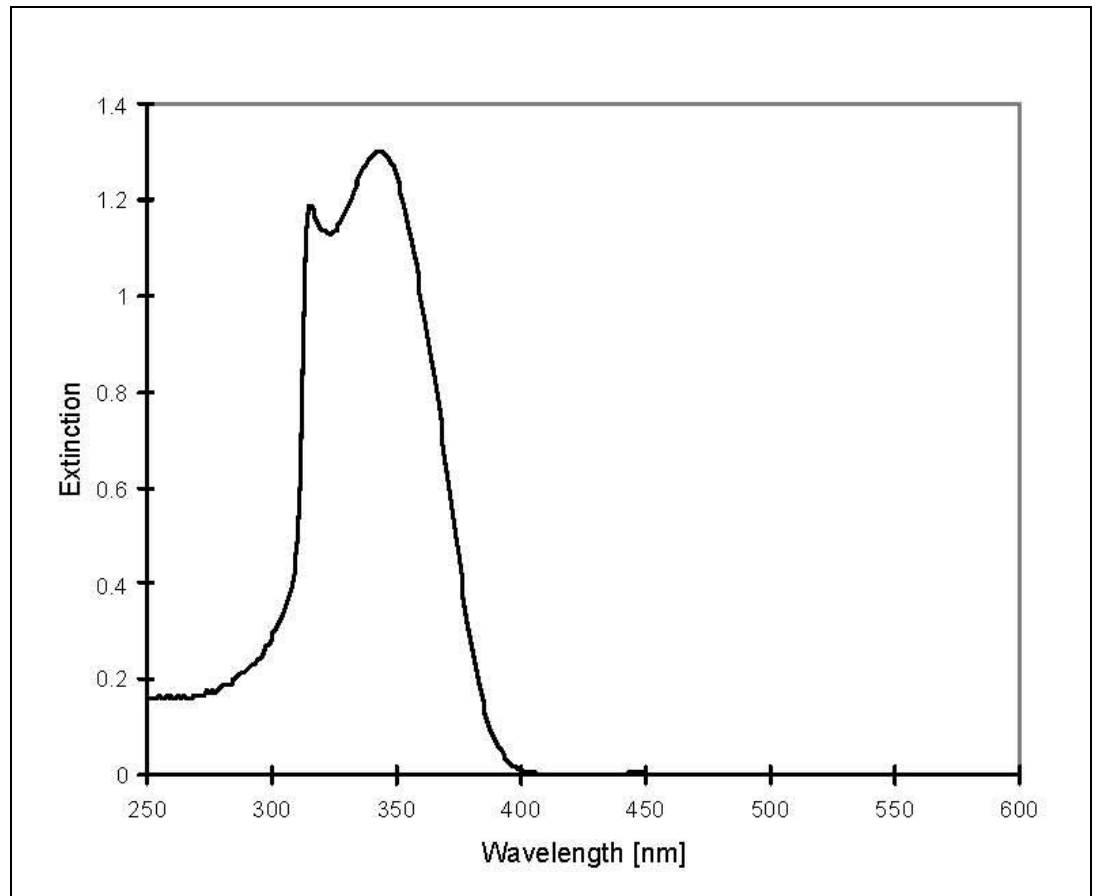
Typical Characteristics

CAS No.	125304-04-3
EC No.	401-680-5
Molecular weight	395
Appearance	slightly yellow to yellow liquid
Miscibility at 20 °C (g/100 g solution):	Miscible to more than 50% with most commonly used solvents and tricresylphosphate.

These typical values should not be interpreted as specifications.

Absorption Spectrum

(400 mg/m² UV absorber in gelatin-based emulsion layer)



Applications

Processing

Tinuvin[®] 171 is recommended for photographic applications. It is particularly suitable for chromogenic color papers to protect the dyes and couplers from harmful UV light.

Tinuvin[®] 171 can be combined with another liquid UV absorber, Tinuvin[®] 109, to achieve desired absorption characteristics.

One of the remarkable benefits of the liquid form of Tinuvin[®] 171 is avoidance of crystallization of the UV absorber in the liquid photographic emulsion preparation during storage and after coating. Consequently, it allows formulation of thinner layers or layers with increased UV light protecting properties through higher load of UV absorbers.

This product can also be used in repro and other photographic applications in which a UV filter is needed e.g. in non-silver imaging color hard copy.

The amount of Tinuvin[®] 171 required for optimum performance should be determined in trials covering a concentration range.

Safety

General

The usual safety precautions when handling chemicals must be observed. These include the measures described in Federal, State and Local health and safety regulations, thorough ventilation of the workplace, good skin care and wearing of protective goggles.

Material Safety Data Sheet

All safety information is provided in the Material Safety Data Sheet Tinuvin[®] 171.

Important

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