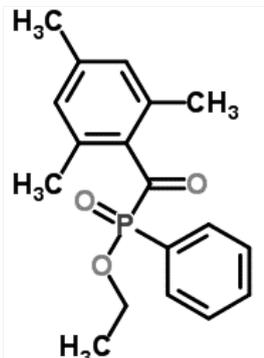


Product Data Sheet

General Information

Omnirad TPO-L is a highly efficient, liquid, Type I photoinitiator used to initiate radical polymerization of unsaturated oligomers e.g. acrylates and unsaturated polyesters containing styrene, after exposure to UV light. It can be used in combination with mono or multi-functional monomers as reactive diluents.

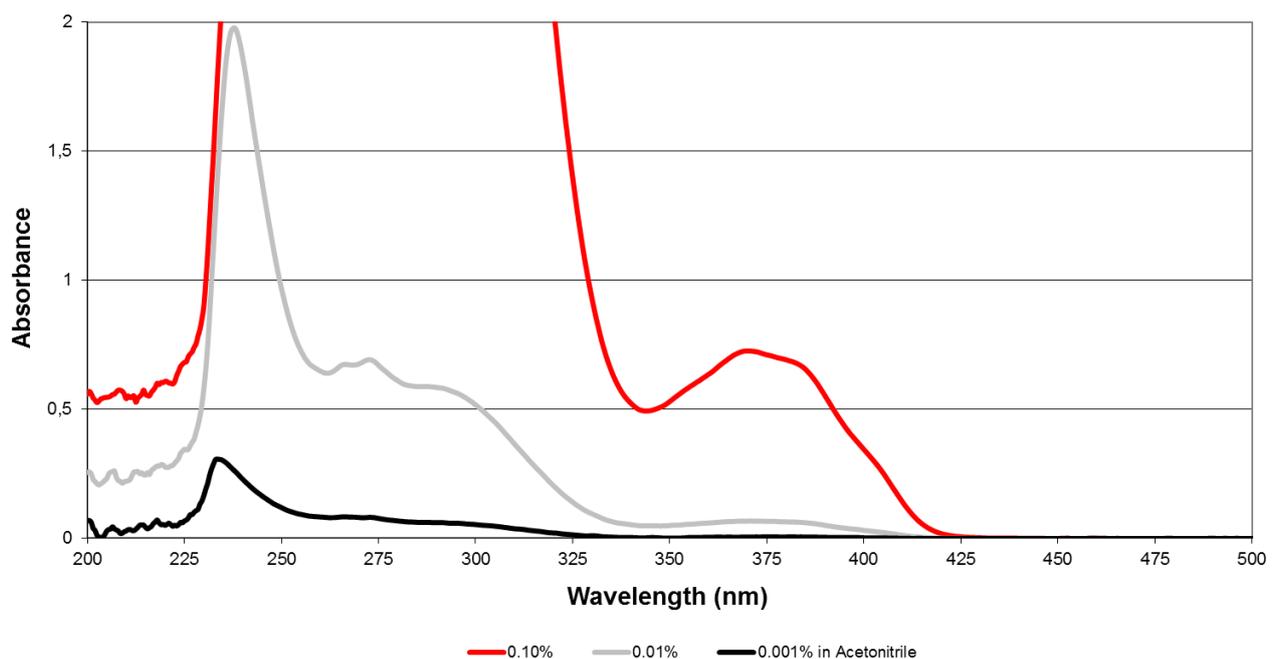
Chemical Data



Chemical Name: Ethyl(2,4,6-Trimethylbenzoyl)-phenyl phosphinate
Molecular weight: 316,4 g/mol
CAS No: 84434-11-7

Absorption Spectrum

Omnirad TPO-L



Specification

Appearance	Visual	Yellow liquid
Purity	HPLC analysis	≥ 98.0 %
Volatiles	Loss on Drying	≤ 1.0 %
Clarity of solution	Visual	Clear
Acid Value	Acid base titration	≤ 1.0 mg KOH/g

Application

Omnirad TPO-L may be used, after adequate testing, in UV curable coating and ink formulations based on acrylates, for substrates such as paper, wood, metal, plastics and glass. In order to improve surface cure. Omnirad TPO-L is usually combined with other photoinitiators such as Omnirad 481, Omnirad 73 and Omnirad BP Flake.

Formulated product properties will depend on the actual reactive monomers, oligomers and additives utilized.

Features & Benefits

Omnirad TPO-L is a liquid photoinitiator, making it easy to incorporate into formulations. It is compatible with most oligomers and monomers used in the UV Radcure industry. It is also useful for blending with other photoinitiators.

Omnirad TPO-L is suitable for the production of formulations which on curing exhibit low yellowing and low odour. As Omnirad TPO-L absorbs in the long wave region of the UV spectrum, it is particularly suitable for use in pigmented systems, even those containing TiO₂, as well as thick film layers.

Recommended Addition levels

An addition level of 0.3 - 5% by weight of total formulation is recommended for technical applications.

Storage & Handling

Storage must be in a cool, shaded, well ventilated and dry area away from direct sources of heat and sunlight. If crystals found upon exposure to cold temperature, material should be warmed up to approx. 35 - 40 °C to re-melt and stirred until homogenous before use.

Avoid contact with alkaline additives and water. Subject to appropriate storage under the usual storage and temperature conditions, our products are durable for at least 24 months.

Omnirad TPO-L should be handled in accordance with good industrial practice. Further information is provided in the material safety data sheet which is available on request.

Regulatory Status

All information can be found on MSDS (Material safety data sheet) and RIS (Regulatory Information Sheet) available upon request.

Packaging

Omnirad TPO-L is available in 20Kg and 200Kg drums and 1000 kg IBC.

Disclaimer:

The information presented in this data sheet is given in good faith and is based on the material available to us at the time of writing. The information is not to be taken as a warranty or representation for which we assume legal responsibility, nor as permission or recommendation to practice any patented invention without a license. It is offered solely for consideration, investigation and verification.

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