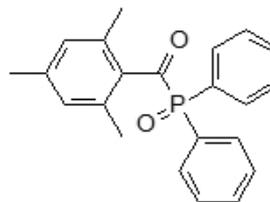


ALPHA CLEAVAGE PHOTO INITIATOR



INTRODUCTION

ADDITOL® TPO is a radical photoinitiator that can be used alone or in combination with other photo initiators. It is used in formulations containing unsaturated materials such as acrylates, methacrylates, vinyls and unsaturated polyesters. With exposure to UV light, ADDITOL® TPO undergoes a photochemical reaction that generates radicals. These radicals will initiate polymerization through the unsaturated groups present in the system.

ADDITOL® TPO, due to its photo-bleaching properties, is particularly suited for the UV curing of white pigmented formulations and thick clear coatings. ADDITOL® TPO is frequently combined with other alpha cleavage photo initiators such as ADDITOL® CPK and ADDITOL® HDMAP for improved surface cure.

PERFORMANCE HIGHLIGHTS

ADDITOL® TPO is characterized by:

- Low odour
- Low volatility

UV curable formulated products containing ADDITOL® TPO are characterized by:

- Low yellowing on UV cure
- Increased depth of cure

The final properties of UV cured products also depend on the selection of other components such as oligomers, reactive diluents and additives.

SUGGESTED APPLICATIONS

ADDITOL® TPO is typically used at levels of 0.5 - 2% by weight based on the reactive components of the formulation. Applications include:

- Screen inks, particularly white
- White flexographic inks
- White offset inks
- Thick (~ 0.25 mm or greater) clear coatings
- Pigmented coatings, particularly white

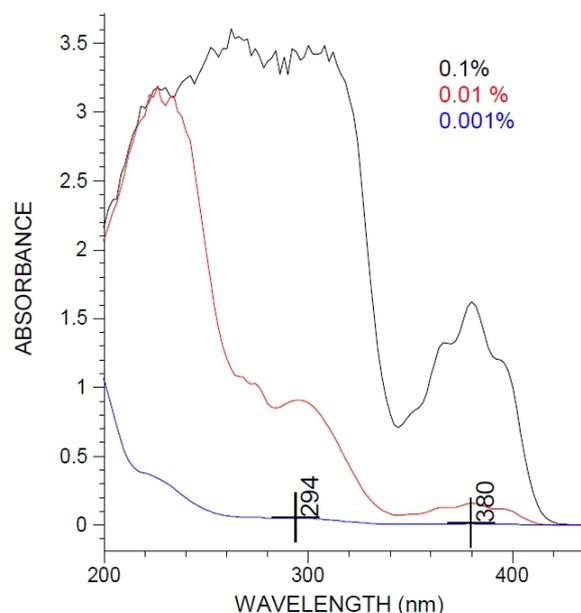
SPECIFICATIONS

Appearance	Yellow powder
Melting point, °C	87 - 94
Purity, %	min. 98

TYPICAL PHYSICAL PROPERTIES

Volatiles	≤ 0.5%
Molecular Weight	348
Extinction coefficients (litres gram-1 cm-1)	296 nm: 8.864 380 nm: 1.566

ABSORPTION SPECTRUM



PRECAUTIONS

Before using ADDITOL® TPO, see the Safety Data Sheet (SDS) for information on the identified hazards of the material and the recommended personal protective equipment and procedures.

STORAGE AND HANDLING

Store the material in a dry area out of direct sunlight. Prevent exposure to any UV or visible light. Keep containers closed and protect from physical damage.

See the SDS for the recommended storage temperature range for ADDITOL® TPO.