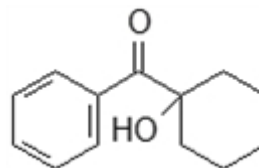


ALPHA CLEAVAGE PHOTO INITIATOR



## INTRODUCTION

ADDITOL® CPK 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® CPK undergoes a photochemical reaction that generates radicals. These radicals will initiate polymerization through the unsaturated groups present in the system.

ADDITOL® CPK is especially suited for coatings requiring low yellowing.

## PERFORMANCE HIGHLIGHTS

ADDITOL® CPK is characterized by:

- Good solubility

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

- Good surface and through cure
- Low yellowing on cure and with exterior exposure

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® CPK is typically used at levels of 1-5% by weight based on the reactive components of the formulation. Applications include:

- Paper upgrading
- Wood top-coats
- Hard-coats for plastics
- Overprint varnishes
- Vinyl flooring
- Metal coatings
- Exterior applications
- General coating applications where low yellowing is critical
- Inks and pigmented coatings (in combination with other photo initiators)

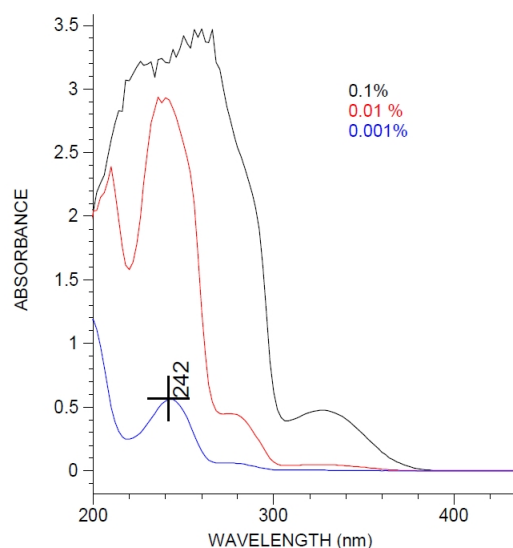
## SPECIFICATIONS

Appearance	White crystalline
Melting point, °C	46 - 50
Purity, %	min. 99

## TYPICAL PHYSICAL PROPERTIES

Volatiles	≤ 0.5%
Molecular Weight	204.3
Extinction coefficients (litres gram-1 cm-1)	276 nm: 4.370 326 nm: 0.462

## ABSORPTION SPECTRUM



## PRECAUTIONS

Before using ADDITOL® CPK, 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. On extended storage, ADDITOL® CPK crystalline powder may agglomerate to form solidified lumps. These can be physically broken-up into smaller pieces as needed for use. Such agglomeration does not affect product quality, though lumps of ADDITOL® CPK will take longer to dissolve into solution.

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