

Lencolo 5023 (369) Photoinitiator

CAS#: 119313-12-1

Description

Lencolo 5023 is a high-efficiency UV photoinitiator used to initiate UV polymerization of unsaturated prepolymerized systems. The unique high absorption characteristics of this photoinitiator make it especially suitable for UV-curable inks and colored coatings.

Technical Data

Molecular Formula	$C_{23}H_{30}N_2O_2$
Molecule Weight (g/mol)	366.5
Composition	2-Benzyl-2-dimethylamino-1-(4-morpholinephenyl)butanone
Appearance	Light yellow powder
Melting Point (°C)	110 - 114
Purity (%)	≥ 99
Volatile Content (%)	≤ 0.5
Ash Content (%)	≤ 0.1
Absorption Peak (nm)	233、323

Applications

UV curable inks and varnishes for paper, metal and plastic surfaces.

Recommended Usage

Solubility (20 °C, g/100g)

Solvent or monomer	Acetone	Butyl acetate	Toluene	Hexylene glycol diethyl ester	N-vinylpyrrolidone
Solubility :	17	11	27	5	25

Offset ink: 2~4%; Colored paint: 1~4%

Screen ink: 2~4%; Applied in imaging field: 3~6%

It is recommended that users determine the optimal dosage through preliminary testing before use.

Storage Conditions

To prevent premature polymerization due to the high reactivity of this product, keep it tightly sealed and store away from heat sources and direct sunlight. It is recommended to maintain storage temperature below 30 °C. Unused product should be promptly resealed and must not be left open. Under ventilated conditions at 25 °C, the product has a safe storage period of 6 months. Available packaging: 20 kg per bag

Tips: Lencolo 5023 has high photosensitivity, minimal migration and low odor.

Note: Technical data represents typical values only. In view of the differences in formulas, production process, conditions, all the above statements must be adjusted according to the actual situation, our company does not make any promises. Our company reserves the right to reform its products without prior notice of any changes.