

PowerCure™ PAG209 Cationic Photoinitiator

Introduction

PowerCure™ PAG209 is a triarylsulfonium salt cationic photoinitiator designed for UV-curable systems. The sulfur atom is partially conjugated with three aromatic rings, enabling effective delocalization of the positive charge.

Upon UV irradiation, the molecule undergoes photolytic cleavage to generate highly active polymerization species, providing high initiation efficiency.

PowerCure™ PAG209 exhibits strong absorption at 365 nm and delivers fast curing, excellent surface dry, non-yellowing performance, non-migration, and low odor characteristics.

Chemical Name

Diphenyl(4-phenylthio)phenylsulfonium Hexafluoroantimonate

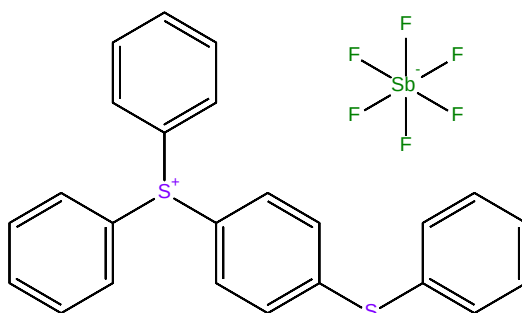
CAS Number

71449-78-0

EINECS Number

680-227-5

Chemical Structure



Physical Properties

Appearance	White crystalline powder
Melting Point (°C)	118-122
Volatiles (%)	Max. 0.5
Purity (%)	Min. 98

Applications

PowerCure™ PAG209 is primarily used in various cationic UV-curing systems and is especially suitable for light-colored formulations. It is typically

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applied at a dosage of 0.5-3.0 wt% based on total formulation weight to achieve efficient curing performance.

This product can also be supplied as a 50% solution in propylene carbonate, providing improved handling and formulation flexibility.

Handling & Storage

In accordance with good industrial practice, handle with care and avoid unnecessary personal contact. Avoid continuous or repetitive breathing of dust. Use only with adequate ventilation. Protect skin. Avoid dust formation and ignition sources.

This product may be stored up to one year in a sealed container. Containers should be stored in a cool, dry area. Extended storage at elevated temperatures or exposure to direct heat or sunlight could reduce product life. Keep containers sealed when not in use.

For more detailed information please refer to the material safety data sheet.

Packing

PowerCure™ PAG209 is supplied in 20Kg Carton.

Note

All information in the leaflet is based on our present knowledge and experience. We reserve the right to make any changes according to technological progress or further developments. Performance of the product described herein should be verified by testing.

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We disclaim liability for any incidental or consequential damages.