

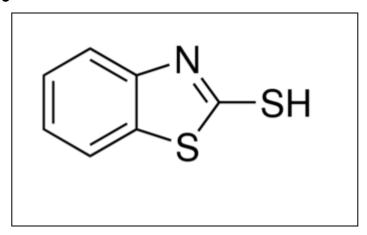
2-Mercaptobenzothiazole FP 5375

General

2-MBT is a low cost, highly soluble, sulfur based co-initiator designed for use with free radical based systems. This unique product acts as an efficient electron donor ,that when paired with HABI's, produce an active thioyl radical that will initiate the polymerization of acrylate formulations.

Because of its low color formation and depth of cure properties, 2-MBT is ideal for most clear coating applications.

Chemical structure



Product information

Phone: (203) 375-1137

CHEMICAL NAME: 2-Mercaptobenzothiazole TRADE NAMES: 2-Benzothiazolethiol, MBT

MOLECULAR FORMULA: C₇H₅NS₂ CAS NO. 149-30-4

REGISTRATIONS: AICS, DSL, EINECS, ENCS, PICCS, TSCA SHELF LIFE: 1 year when stored indoors at 25 (+/- 5) deg C

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Rev: 06/01/2017

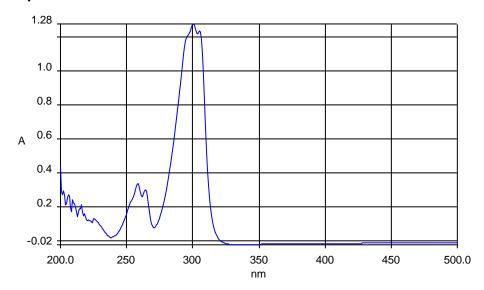
Typical properties

APPEARANCE: Off White to Tan Crystalline Powder

IR: To match standard PURITY: 98.0% (HPLC)

MELTING POINT: 188.0-194.0 degrees C (DSC)

Absorption Spectrum



Usage recommendations:

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All HABI photoinitiators operate via a Norrish II type reaction mechanism, meaning they must be combined with a suitable co-initiator in order attain complete photo-polymerization. The two most commonly used products are nitrogen based (i.e. n-Phenyl Glycine) or thiols such as 2-MBO or 2 MBT. NPG is the more active of the two materials, and should be used for applications requiring fast cure speed or a high degree of polymerization. Thiols offers improved resistance to oxygen inhibition and imparts very little color, making it ideal for clear coating applications. One or both of these materials can be used in most formulations, with a typical starting point being 2 parts photoinitiator to one part co-initiator.

2-MBT is commonly used as a coinitiator due to it's low use cost and ease of solubility.

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Safety and Handling

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2-MBT should be handled in accordance with good industrial practice. Detailed information is provided in the SDS.

2-MBT is sensitive to visible light and any exposure to sunlight should be avoided.

NOTE: Intellectual property issues cover the use of this material in select applications.

For additional information visit our website www.hampfordresearch.com.

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