PRODUCT INFORMATION



2-methyl-4'-(methylthio)-2-Morpholinopropiophenone

Item No. 21651

CAS Registry No.: 71868-10-5

2-methyl-1-(4-(methylthio)phenyl)-Formal Name:

2-morpholinopropan-1-one

Synonyms: Caccure 907, Irgacure 907, MMMP,

MMTMP, MTMP

 $C_{15}H_{21}NO_{2}S$ MF: 279.4 FW: **Purity:** ≥98%

UV/Vis.: λ_{max} : 230, 307 nm A crystalline solid Supplied as:

-20°C Storage: ≥5 years Stability:

Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.



2-methyl-4'-(methylthio)-2-Morpholinopropiophenone (MMMP; Item No. 21651) is an analytical reference standard that is structurally characterized as a substituted cathinone. It is a photoinitiator that almost instantaneously generates free radicals to induce polymerization in the production of UV curable inks, to speed drying during printing, and in colored coatings. 1 MMMP is toxic to human peripheral blood mononuclear cells in vitro (250 µg/ml) through a caspase 3/7-dependent mechanism.² This product is intended for research and forensic applications.

References

- 1. Buback, M. and Kuelpmann, A. A suitable photoinitiator for pulsed laser-induced free-radical polymerization Macromol. Chem. Phys. 204(4), 632-637 (2003).
- 2. Kawasaki, Y., Yagi, K., Tsuboi, C., et al. The polymerization agent, 2-methyl-4'-(methylthio)-2morpholinopropiophenone induces caspases-3/7 in human blood mononuclear cells in vitro. Biol. Pharm. Bull. 36(10), 1640-1645 (2013).

WARNING
THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

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