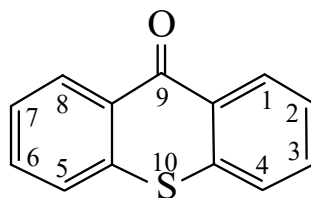




>>Entry Name: Thioxanthone

Synonym(s): 9*H*-Thioxanthen-9-one, 9Cl. 9-Oxothioxanthene. Thiaxanthone



CAS Registry Number: 492-22-8

Molecular Formula: C₁₃H₈OS

Molecular Weight: 212.272

Accurate Mass: 212.029585

Percentage Composition: C 73.56%; H 3.80%; O 7.54%; S 15.11%

Physical Description: Yellow needles (EtOH)

Melting Point: Mp 212-214° (209°)

Solubility: Insol. H₂O; sol. AcOH, CHCl₃

Other Data: Sublimes

Aldrich: T3400-2

Fluka: 89108

>>Derivative: Hydrazone

CAS Registry Number: 17433-24-8

Molecular Formula: C₁₃H₁₀N₂S

Molecular Weight: 226.301

Accurate Mass: 226.056468

Percentage Composition: C 69.00%; H 4.45%; N 12.38%; S 14.17%

Physical Description: Yellow leaflets (EtOH or C₆H₆)

Melting Point: Mp 115°

>>Derivative: S-Oxide

CAS Registry Number: 7605-15-4

Molecular Formula: C₁₃H₈O₂S

Molecular Weight: 228.271

Accurate Mass: 228.0245

Percentage Composition: C 68.40%; H 3.53%; O 14.02%; S 14.05%

Melting Point: Mp 200-202°

>>Derivative: S,S-Dioxide

CAS Registry Number: 3166-15-2

Molecular Formula: C₁₃H₈O₃S

Molecular Weight: 244.27

Accurate Mass: 244.019415

Percentage Composition: C 63.92%; H 3.30%; O 19.65%; S 13.13%

Physical Description: Needles (EtOH)

Melting Point: Mp 186-187°

Rare Chemicals Library: S86379-3

References:

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Ternay, A.L. *et al.*, *J.C.S. Perkin 2*, 1989, 325; 1657, (*pmr, cmr*)