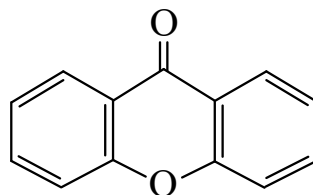




>>Entry Name: Xanthone

Synonym(s): 9H-Xanthen-9-one, 9Cl. Dibenz-γ-pyrone



CAS Registry Number: 90-47-1

Molecular Formula: C<sub>13</sub>H<sub>8</sub>O<sub>2</sub>

Molecular Weight: 196.205

Accurate Mass: 196.05243

Percentage Composition: C 79.58%; H 4.11%; O 16.31%

Biological Source: Present in gentian and other flowers

Physical Description: Needles (EtOH)

Melting Point: Mp 174°

Boiling Point: Bp<sub>730</sub> 349-350°. Bp<sub>3</sub> 143-146°

pK<sub>a</sub> Value: pK<sub>a</sub> -4.85 (15°, H<sub>2</sub>SO<sub>4</sub> aq.)

Other Data: Spar. steam-volatile. Conc. H<sub>2</sub>SO<sub>4</sub> → yellow soln. with intense light-blue fluor.

Aldrich: X60-0

Fluka: 95502

>>Derivative: Oxime

CAS Registry Number: 5934-37-2

Molecular Formula: C<sub>13</sub>H<sub>9</sub>NO<sub>2</sub>

Molecular Weight: 211.22

Accurate Mass: 211.063329

Percentage Composition: C 73.92%; H 4.29%; N 6.63%; O 15.15%

Physical Description: Cryst. (C<sub>6</sub>H<sub>6</sub>)

Melting Point: Mp 161°

Other Data: Yellow soln. with blue fluor. in H<sub>2</sub>SO<sub>4</sub>

>>Derivative: Phenylhydrazone

CAS Registry Number: 87688-47-9

Physical Description: Golden cryst. (EtOH)

Melting Point: Mp 152°

Other Data: Yellow soln. with green fluor. in H<sub>2</sub>SO<sub>4</sub>

>>Derivative: Thiosemicarbazone

Physical Description: Cryst. (EtOH aq.)

Melting Point: Mp 182°

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