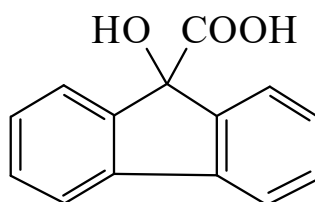




>>Entry Name: 9-Hydroxy-9H-fluorene-9-carboxylic acid

Synonym(s): α -Hydroxydiphenyleneacetic acid. Diphenyleneglycollic acid. 9-Fluorenol-9-carboxylic acid. Flurenol, BSI, ISO. Flurecol



CAS Registry Number: 467-69-6

Molecular Formula: $C_{14}H_{10}O_3$

Molecular Weight: 226.231

Accurate Mass: 226.062995

Percentage Composition: C 74.33%; H 4.46%; O 21.22%

Use/Importance: Plant-growth regulator

Physical Description: Leaflets + $\frac{1}{2}$ H_2O (H_2O)

Melting Point: Mp 125°. Mp 169° (anhyd.)

Hazard & Toxicity: LD₅₀ (rat, orl) >10000 mg/kg

Sigma: H8507

>>Derivative: Me ester

CAS Registry Number: 1216-44-0

Molecular Formula: $C_{15}H_{12}O_3$

Molecular Weight: 240.258

Accurate Mass: 240.078645

Percentage Composition: C 74.99%; H 5.03%; O 19.98%

Physical Description: Cryst. (Me_2CO aq.)

Melting Point: Mp 160°

>>Derivative: Et ester

CAS Registry Number: 6328-78-5

Molecular Formula: $C_{16}H_{14}O_3$

Molecular Weight: 254.285

Accurate Mass: 254.094295

Percentage Composition: C 75.58%; H 5.55%; O 18.88%

Physical Description: Cryst. (EtOH)

Melting Point: Mp 90°

>>Derivative: Butyl ester

Synonym(s): Flurenol-butyl

CAS Registry Number: 2314-09-2

Molecular Formula: $C_{18}H_{18}O_3$

Molecular Weight: 282.338

Accurate Mass: 282.125595

Percentage Composition: C 76.57%; H 6.43%; O 17.00%

Use/Importance: Plant growth regulator

Physical Description: Cryst.

Melting Point: Mp 71°

pKa Value: pK_a 3.09

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