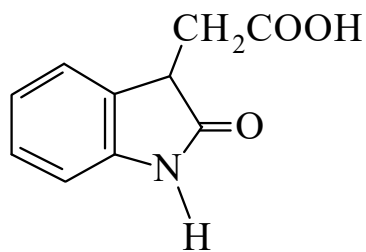




>>Entry Name: **2,3-Dihydro-2-oxo-1*H*-indole-3-acetic acid**, 9CI

Synonym(s): 2-Hydroxy-1*H*-indole-3-acetic acid. Oxindole-3-acetic acid. 2-(2-Oxo-3-indoliny)acetic acid



CAS Registry Number: 2971-31-5

Molecular Formula: C₁₀H₉NO₃

Molecular Weight: 191.186

Accurate Mass: 191.058244

Percentage Composition: C 62.82%; H 4.74%; N 7.33%; O 25.11%

>>Variant: (±)-form

CAS Registry Number: 99102-28-0

Molecular Formula: C₁₀H₉NO₃

Molecular Weight: 191.186

Accurate Mass: 191.058244

Percentage Composition: C 62.82%; H 4.74%; N 7.33%; O 25.11%

Physical Description: Needles (Me₂CO/C₆H₆)

Melting Point: Mp 146°

>>Derivative: Me ester

CAS Registry Number: 110425-83-7

Molecular Formula: C₁₁H₁₁NO₃

Molecular Weight: 205.213

Accurate Mass: 205.073894

Percentage Composition: C 64.38%; H 5.40%; N 6.83%; O 23.39%

Physical Description: Needles (MeOH)

Melting Point: Mp 164-167°

>>Derivative: Et ester

CAS Registry Number: 40940-16-7

Molecular Formula: C₁₂H₁₃NO₃

Molecular Weight: 219.24

Accurate Mass: 219.089544

Percentage Composition: C 65.74%; H 5.98%; N 6.39%; O 21.89%

Physical Description: Cryst. (petrol)

Melting Point: Mp 94-98°

>>Variant: (ξ)-form

Molecular Formula: C₁₀H₉NO₃

Molecular Weight: 191.186

Accurate Mass: 191.058244

Percentage Composition: C 62.82%; H 4.74%; N 7.33%; O 25.11%

Biological Source: Prod. of catabolism of 1*H*-Indole-3-acetic acid [BNC14-M](#) in *Zea mays*. Also isol. from *Ribes rubrum*, *Brassica* spp. and *Helianthus annuus*

>>Derivative: Me ester

CAS Registry Number: 61989-29-5

Molecular Formula: C₁₁H₁₁NO₃

Molecular Weight: 205.213

Percentage Composition: C 64.38%; H 5.40%; N 6.83%; O 23.39%

Biological Source: Isol. from rice bran

Use/Importance: Prob. intermed. in biosynth. of 2,6-Dihydroxy-4-quinolinecarboxylic acid [FWQ48-U](#) from 1*H*-Indole-3-acetic acid [BNC14-M](#)

Physical Description: Needles

Melting Point: Mp 170-172°

References: