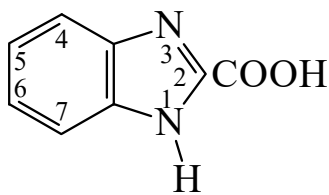




>>Entry Name: **1*H*-Benzimidazole-2-carboxylic acid**, 9CI



CAS Registry Number: 2849-93-6

Related CAS Registry Numbers(s): 59118-49-9

Molecular Formula: C₈H₆N₂O₂

Molecular Weight: 162.148

Accurate Mass: 162.042928

Percentage Composition: C 59.26%; H 3.73%; N 17.28%; O 19.73%

Physical Description: Needles (H₂O)

Melting Point: Mp 174 dec.°

>>Derivative: Me ester

CAS Registry Number: 5805-53-8

Molecular Formula: C₉H₈N₂O₂

Molecular Weight: 176.174

Accurate Mass: 176.058578

Percentage Composition: C 61.36%; H 4.58%; N 15.90%; O 18.16%

Physical Description: Needles (EtOAc)

Melting Point: Mp 213-214°

>>Derivative: Et ester

CAS Registry Number: 1865-09-4

Molecular Formula: C₁₀H₁₀N₂O₂

Molecular Weight: 190.201

Accurate Mass: 190.074228

Percentage Composition: C 63.15%; H 5.30%; N 14.73%; O 16.82%

Physical Description: Needles (EtOH aq.)

Melting Point: Mp 228-230°

>>Derivative: Isopropyl ester

Molecular Formula: C₁₁H₁₂N₂O₂

Molecular Weight: 204.228

Accurate Mass: 204.089878

Percentage Composition: C 64.69%; H 5.92%; N 13.72%; O 15.67%

Physical Description: Cryst. (EtOH aq.)

Melting Point: Mp 222°

>>Derivative: Ph ester

CAS Registry Number: 31841-05-1

Molecular Formula: C₁₄H₁₀N₂O₂

Molecular Weight: 238.245

Accurate Mass: 238.074228

Percentage Composition: C 70.58%; H 4.23%; N 11.76%; O 13.43%

Physical Description: Platelets (dioxan aq.)

Melting Point: Mp 205-206°

>>Derivative: Chloride

Molecular Formula: C₈H₅ClN₂O

Molecular Weight: 180.593

Accurate Mass: 180.00904

Percentage Composition: C 53.21%; H 2.79%; Cl 19.63%; N 15.51%; O 8.86%

Melting Point: Mp 140-141°