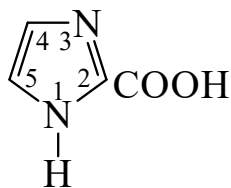




>>Entry Name: **1*H*-Imidazole-2-carboxylic acid**, 9CI



CAS Registry Number: 16042-25-4

Molecular Formula: C₄H₄N₂O₂

Molecular Weight: 112.088

Accurate Mass: 112.027278

Percentage Composition: C 42.86%; H 3.60%; N 24.99%; O 28.55%

Physical Description: Plates (EtOH aq.)

Melting Point: Mp 172-174 (163-164°) dec.°

Other Data: Mp dependent on rate of heating

>>Derivative: Me ester

CAS Registry Number: 17334-09-7

Molecular Formula: C₅H₆N₂O₂

Molecular Weight: 126.115

Accurate Mass: 126.042928

Percentage Composition: C 47.62%; H 4.80%; N 22.21%; O 25.37%

Physical Description: Needles (C₆H₆/MeOH)

Melting Point: Mp 195.5-196°

>>Derivative: Et ester

CAS Registry Number: 33543-78-1

Molecular Formula: C₆H₈N₂O₂

Molecular Weight: 140.141

Accurate Mass: 140.058578

Percentage Composition: C 51.42%; H 5.75%; N 19.99%; O 22.83%

Physical Description: Cryst. (EtOH)

Melting Point: Mp 178-179°

>>Derivative: Amide

CAS Registry Number: 16093-82-6

Molecular Formula: C₄H₅N₃O

Molecular Weight: 111.103

Accurate Mass: 111.043262

Percentage Composition: C 43.24%; H 4.54%; N 37.82%; O 14.40%

Physical Description: Needles

Melting Point: Mp 295 dec.°

>>Derivative: Nitrile

Synonym(s): 2-Cyanoimidazole

CAS Registry Number: 31722-49-3

Molecular Formula: C₄H₃N₃

Molecular Weight: 93.088

Accurate Mass: 93.032697

Percentage Composition: C 51.61%; H 3.25%; N 45.14%

Physical Description: Needles (C₆H₆/EtOH)

Melting Point: Mp 176-178°

>>Derivative: *N*-Me, Me ester

CAS Registry Number: 62366-53-4

Molecular Formula: C₆H₈N₂O₂

Molecular Weight: 140.141

Accurate Mass: 140.058578

Percentage Composition: C 51.42%; H 5.75%; N 19.99%; O 22.83%

Physical Description: Liq.

Boiling Point: Bp_{0.1} 80°