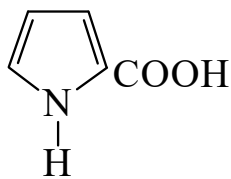




>>Entry Name: **1*H*-Pyrrole-2-carboxylic acid**, 9CI

Synonym(s): Minaline



CAS Registry Number: 634-97-9

Molecular Formula: C₅H₅NO₂

Molecular Weight: 111.1

Accurate Mass: 111.032029

Percentage Composition: C 54.05%; H 4.54%; N 12.61%; O 28.80%

Biological Source: Occurs in various microorganisms, e.g. *Streptomyces griseoflavus*. Imino-acid occurring in diastase, prob. resulting from dehydration of hydroxyprolines

Use/Importance: Esters possess local anaesthetic props.

Physical Description: Leaflets (H₂O)

Melting Point: Mp 208.5 dec.°

Solubility: Sol. H₂O, EtOH, Et₂O

pKa Value: p*K*_{a1} 1.48; p*K*_{a2} 4.5 (25°)

UV: [neutral] λ_{max} 263 () (MeOH) (Berdy)

Other Data: Decarboxylates at Mp. Isoelectric point 2.9

Aldrich: P7360-9

Fluka: 83235

Sigma: P3146

>>Derivative: Me ester

CAS Registry Number: 1193-62-0

Molecular Formula: C₆H₇NO₂

Molecular Weight: 125.127

Accurate Mass: 125.047679

Percentage Composition: C 57.59%; H 5.64%; N 11.19%; O 25.57%

Physical Description: Needles (petrol)

Melting Point: Mp 73°

Boiling Point: Bp₇₄₀ 220-223°. Bp₁₄ 115-120° (lit. gives a pressure range)

Solubility: Sol. EtOH, Et₂O

>>Derivative: Et ester

CAS Registry Number: 2199-43-1

Molecular Formula: C₇H₉NO₂

Molecular Weight: 139.154

Accurate Mass: 139.063329

Percentage Composition: C 60.42%; H 6.52%; N 10.07%; O 23.00%

Physical Description: Cryst.

Melting Point: Mp 41-42°

Boiling Point: Bp 230-232°

Solubility: V. sol. Et₂O, EtOH, C₆H₆, petrol

Aldrich: 43205-9

>>Derivative: α-L-Rhamnopyranosyl ester

Synonym(s): 1*H*-Pyrrol-2-ylcarbonyl α-L-rhamnopyranoside

Molecular Formula: C₁₁H₁₅NO₆

Molecular Weight: 257.243

Accurate Mass: 257.089939

Percentage Composition: C 51.36%; H 5.88%; N 5.44%; O 37.32%

Biological Source: Prod. by *Streptomyces* sp.

Melting Point: Mp 89 dec.°

Optical Rotation: [α]_D²⁰ -39 (c, 0.56 in MeOH)

UV: [neutral] λ_{max} 210 (log ε 3.37); 267 (log ε 4.23) (MeOH)