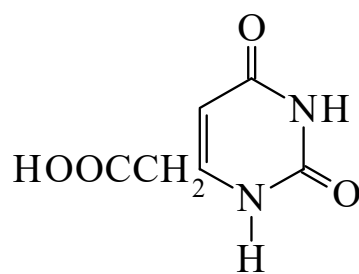




>>Entry Name: 1,2,3,6-Tetrahydro-2,6-dioxo-4-pyrimidineacetic acid, 9CI

Synonym(s): 2,6-Dihydroxy-4-pyrimidineacetic acid. Uracil-4-acetic acid



CAS Registry Number: 4628-39-1

Molecular Formula: C₆H₆N₂O₄

Molecular Weight: 170.124

Accurate Mass: 170.032758

Percentage Composition: C 42.36%; H 3.55%; N 16.47%; O 37.62%

Physical Description: Fine needles (H₂O)

Melting Point: Mp 300°

Sigma: U1502

>>Derivative: Monohydrate

Physical Description: Large prisms

Melting Point: Mp 300°

>>Derivative: Me ester

CAS Registry Number: 6535-93-9

Molecular Formula: C₇H₈N₂O₄

Molecular Weight: 184.151

Accurate Mass: 184.048408

Percentage Composition: C 45.66%; H 4.38%; N 15.21%; O 34.75%

Physical Description: Large, elongated prisms (H₂O)

Melting Point: Mp 216-218°

>>Derivative: Et ester

CAS Registry Number: 6426-84-2

Molecular Formula: C₈H₁₀N₂O₄

Molecular Weight: 198.178

Accurate Mass: 198.064058

Percentage Composition: C 48.49%; H 5.09%; N 14.14%; O 32.29%

Physical Description: Cryst. by subl.

Melting Point: Mp 189-191°

>>Derivative: N-Ethylamide

CAS Registry Number: 106780-46-5

Molecular Formula: C₈H₁₁N₃O₃

Molecular Weight: 197.193

Accurate Mass: 197.080042

Percentage Composition: C 48.73%; H 5.62%; N 21.31%; O 24.34%

Physical Description: Solid

Melting Point: Mp 235-240 dec.°

References:

Wheeler, H.L. *et al.*, *J.A.C.S.*, 1908, **30**, 1156, (*synth*)

Hilbert, G.E., *J.A.C.S.*, 1932, **54**, 2077, (*synth*)

Dietz, T.M. *et al.*, *J.A.C.S.*, 1987, **109**, 1793, (*deriv, synth, ir, pmr, ms*)