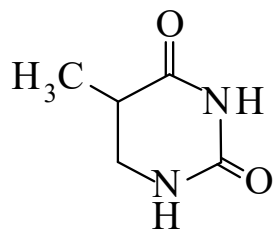




>>Entry Name: Dihydro-5-methyl-2,4(1*H*,3*H*)-pyrimidinedione, 9CI

Synonym(s): Dihydrothymine



CAS Registry Number: 696-04-8

Molecular Formula: C₅H₈N₂O₂

Molecular Weight: 128.13

Accurate Mass: 128.058578

Percentage Composition: C 46.87%; H 6.29%; N 21.86%; O 24.97%

pKa Value: pK_{a1} 11.87

Rare Chemicals Library: S41229-5

Sigma: D7503

>>Variant: (±)-form

Molecular Formula: C₅H₈N₂O₂

Molecular Weight: 128.13

Accurate Mass: 128.058578

Percentage Composition: C 46.87%; H 6.29%; N 21.86%; O 24.97%

Physical Description: Cryst. (H₂O or EtOH)

Melting Point: Mp 261-263°

References:

Fischer, E. *et al.*, *Ber.*, 1901, **34**, 3751, (*synth*)

Furberg, S. *et al.*, *J.A.C.S.*, 1968, **90**, 470, (*cryst struct*)

Takemoto, K. *et al.*, *Chem. Lett.*, 1972, 767, (*synth*)

Bergstrom, D.E. *et al.*, *J.O.C.*, 1979, **44**, 1414, (*cmr*)