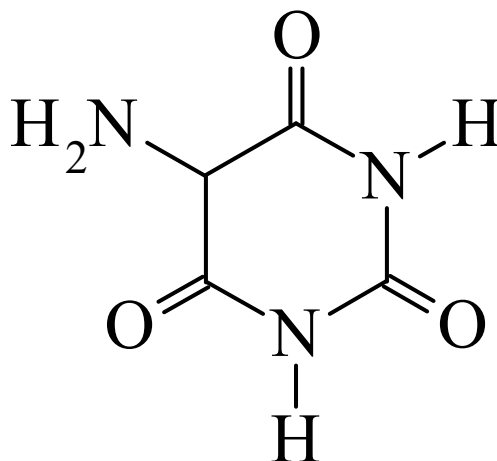




>>Entry Name: 5-Amino-2,4,6(1*H*,3*H*,5*H*)-pyrimidinetrione, 9CI

Synonym(s): 5-Aminobarbituric acid, 8CI. Uramil



CAS Registry Number: 118-78-5

Molecular Formula: C₄H₅N₃O₃

Molecular Weight: 143.102

Accurate Mass: 143.033092

Percentage Composition: C 33.57%; H 3.52%; N 29.36%; O 33.54%

Use/Importance: Used in the manuf. of photographic developers, and hair dye couplers. Derivs. are hypnotics

Physical Description: Needles or plates (H₂O)

Melting Point: Mp 400°

Solubility: Mod. sol. hot H₂O; sol. alkalis

Rare Chemicals Library: S68577-1

Sigma: U1000

>>Derivative: 1-Me

Synonym(s): 5-Amino-1-methyl-2,4,6(1*H*,3*H*,5*H*)-pyrimidinetrione, 9CI. 1-Methyluramil

CAS Registry Number: 29458-43-3

Molecular Formula: C₅H₇N₃O₃

Molecular Weight: 157.129

Accurate Mass: 157.048742

Percentage Composition: C 38.22%; H 4.49%; N 26.74%; O 30.55%

Physical Description: Cryst.

Melting Point: Mp 270° (253-256°)

Other Data: Turns pink in air

>>Derivative: 1,3-*N*-Di-Me

Synonym(s): 5-Amino-1,3-dimethyl-2,4,6(1*H*,3*H*,5*H*)-pyrimidinetrione, 9CI

CAS Registry Number: 30066-93-4

Molecular Formula: C₆H₉N₃O₃

Molecular Weight: 171.155

Accurate Mass: 171.064392

Percentage Composition: C 42.11%; H 5.30%; N 24.55%; O 28.04%

Physical Description: Needles

Melting Point: Mp 200° (dec.)

Other Data: Turns red in air. Dec. by alkalis

>>Derivative: 1,3,*N*⁵-Tri-Me

Synonym(s): 1,3-Dimethyl-5-(methylamino)barbituric acid

CAS Registry Number: 29458-47-7

Molecular Formula: C₇H₁₁N₃O₃

Molecular Weight: 185.182

Accurate Mass: 185.080042

Percentage Composition: C 45.40%; H 5.99%; N 22.69%; O 25.92%

Physical Description: Needles (EtOH or H₂O)

Melting Point: Mp 200° (dec.)