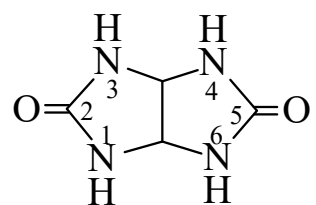




>>Entry Name: Tetrahydroimidazo[4,5-*d*]imidazole-2,5-(1*H*,3*H*)-dione, 9Cl, 8Cl

Synonym(s): 2,4,6,8-Tetraazabicyclooctane-3,7-dione. Hexahydro-2,6-dioxoimidazolo[4,5-*d*]imidazole. Glycoluril. Acetylenediurene. Glyoxaldiurene. Acetylene carbamide



CAS Registry Number: 496-46-8

Molecular Formula: C₄H₆N₄O₂

Molecular Weight: 142.117

Accurate Mass: 142.049076

Percentage Composition: C 33.81%; H 4.26%; N 39.42%; O 22.52%

Use/Importance: Analogue of Biotin [JRM31-Z](#)

Physical Description: Needles or prisms (H₂O)

Melting Point: Mp 300 dec.°

Aldrich: G730-5

Fluka: 50643

Rare Chemicals Library: S5138-2

>>Derivative: *N*-Tetra-Ac

CAS Registry Number: 10543-60-9

Molecular Formula: C₁₂H₁₄N₄O₆

Molecular Weight: 310.266

Accurate Mass: 310.091336

Percentage Composition: C 46.45%; H 4.55%; N 18.06%; O 30.94%

Physical Description: Needles (EtOH)

Melting Point: Mp 236-238 dec.°

Rare Chemicals Library: S46128-8

>>Derivative: 1,4-Di-Me

CAS Registry Number: 17754-76-6

Molecular Formula: C₆H₁₀N₄O₂

Molecular Weight: 170.171

Accurate Mass: 170.080376

Percentage Composition: C 42.35%; H 5.92%; N 32.92%; O 18.80%

Physical Description: Needles (H₂O)

Melting Point: Mp 285-287°

>>Derivative: 1,6-Di-Me

CAS Registry Number: 3720-98-7

Molecular Formula: C₆H₁₀N₄O₂

Molecular Weight: 170.171

Accurate Mass: 170.080376

Percentage Composition: C 42.35%; H 5.92%; N 32.92%; O 18.80%

Physical Description: Needles (H₂O)

Melting Point: Mp 230-232°

>>Derivative: *N*-Tetra-Me

CAS Registry Number: 10095-06-4

Molecular Formula: C₈H₁₄N₄O₂

Molecular Weight: 198.224

Accurate Mass: 198.111676

Percentage Composition: C 48.47%; H 7.12%; N 28.26%; O 16.14%

Physical Description: Needles (EtOH)

Melting Point: Mp 217°

Rare Chemicals Library: S6432-8