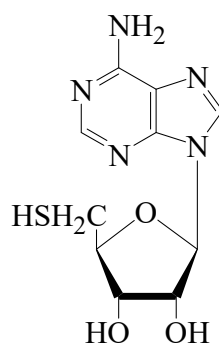




>>Entry Name: 5'-Thioadenosine, 9Cl

Synonym(s): 6-Amino-9-(5-thioribofuranosyl)purine



CAS Registry Number: 67805-97-4

Molecular Formula: $C_{10}H_{13}N_5O_3S$

Molecular Weight: 283.31

Accurate Mass: 283.07391

Percentage Composition: C 42.40%; H 4.62%; N 24.72%; O 16.94%; S 11.32%

Physical Description: Cryst. (H_2O)

Melting Point: Mp 75-77°

>>Derivative: S-Me

Synonym(s): 5'-S-Methyl-5'-thioadenosine, 9Cl, 8Cl. Adenine thiomethylpentoside

CAS Registry Number: 2457-80-9

Molecular Formula: $C_{11}H_{15}N_5O_3S$

Molecular Weight: 297.337

Accurate Mass: 297.08956

Percentage Composition: C 44.43%; H 5.08%; N 23.55%; O 16.14%; S 10.78%

Biological Source: Isol. from yeast

Use/Importance: Involved in biological transmethyations

Physical Description: Needles (MeOH aq.)

Melting Point: Mp 213-214°

Optical Rotation: $[\alpha]_D +12.2$ (1% H_2SO_4 aq.)

Aldrich: 28553-6

Fluka: 31122

Sigma: D5011

>>Derivative: S-Me, 2',3'-O-isopropylidene

Molecular Formula: $C_{14}H_{19}N_5O_3S$

Molecular Weight: 337.402

Accurate Mass: 337.12086

Percentage Composition: C 49.84%; H 5.68%; N 20.76%; O 14.23%; S 9.50%

Melting Point: Mp 143°

>>Derivative: S-Me, tritosyl

CAS Registry Number: 80860-53-3

Molecular Formula: $C_{32}H_{33}N_5O_9S_4$

Molecular Weight: 759.905

Accurate Mass: 759.11611

Percentage Composition: C 50.58%; H 4.38%; N 9.22%; O 18.95%; S 16.88%

Melting Point: Mp 158-160°