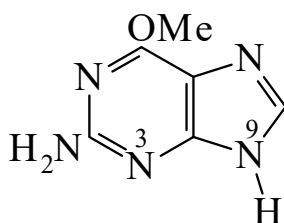




>>Entry Name: 2-Amino-6-methoxypurine

Synonym(s): 6-Methoxy-1*H*-purin-2-amine, 9Cl. 6-*O*-Methylguanine



CAS Registry Number: 20535-83-5

Molecular Formula: C₆H₇N₅O

Molecular Weight: 165.154

Accurate Mass: 165.06506

Percentage Composition: C 43.64%; H 4.27%; N 42.40%; O 9.69%

Source/Synthesis: Prod. in nucleic acids by methylation of Guanine [HHS79-J](#), e.g. by chemical carcinogens

Physical Description: Cryst. (H₂O)

Melting Point: Mp 360°

Other Data: Indexed by CAS as the 1*H*-form

Hazard & Toxicity: Potent mutagen

Aldrich: 36305-7

Sigma: M9286

>>Derivative: 3-Oxide

CAS Registry Number: 30345-92-7

Molecular Formula: C₆H₇N₅O₂

Molecular Weight: 181.154

Accurate Mass: 181.059975

Percentage Composition: C 39.78%; H 3.89%; N 38.66%; O 17.66%

Physical Description: Prisms + H₂O

Melting Point: Mp 231-232° (hydrate)

>>Derivative: 9-Et

Synonym(s): 9-Ethyl-6-methoxy-9*H*-purin-2-amine

CAS Registry Number: 137063-90-2

Molecular Formula: C₈H₁₁N₅O

Molecular Weight: 193.208

Accurate Mass: 193.09636

Percentage Composition: C 49.73%; H 5.74%; N 36.25%; O 8.28%

Physical Description: Cryst. (C₆H₆/cyclohexane)

Melting Point: Mp 137-139°

References:

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Birdsall, N.J.M. *et al.*, *J.O.C.*, 1971, **36**, 2635, (*oxide*)

Eadie, J.S. *et al.*, *Nature (London)*, 1984, **308**, 201, (*rev*)

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