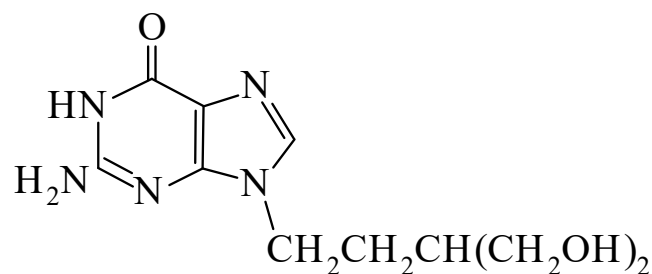




>>Entry Name: Penciclovir, BAN, INN

Synonym(s): 2-Amino-1,9-dihydro-9-[4-hydroxy-3-(hydroxymethyl)butyl]-6H-purin-6-one, 9Cl. 9-(4-Hydroxy-3-hydroxymethylbutyl)guanine. BRL 39123



CAS Registry Number: 39809-25-1

Molecular Formula: C₁₀H₁₅N₅O₃

Molecular Weight: 253.26

Accurate Mass: 253.11749

Percentage Composition: C 47.43%; H 5.97%; N 27.65%; O 18.95%

Use/Importance: Antiviral agent. Active against HSV-1 and HSV-2

Physical Description: Cryst.

Development Status: Approved by FDA (1996)

Melting Point: Mp 275-277°

Calculated Log P Data: Log P -3.47 (calc)

>>Derivative: 4'-Ac

CAS Registry Number: 97845-80-2

Physical Description: Cryst.

Melting Point: Mp 201-205°

>>Derivative: Na salt

Synonym(s): Penciclovir sodium, USAN

CAS Registry Number: 97845-62-0

Biological Use/Importance: Used for the treatment of herpes virus infections

References:

Pandit, U.K. *et al.*, *Synth. Commun.*, 1972, **2**, 345, (*synth*)

Tippie, M.A. *et al.*, *Nucleosides Nucleotides*, 1984, **3**, 525; *CA*, **102**, 214686b, (*synth*)

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Harnden, M.R. *et al.*, *Tet. Lett.*, 1985, **26**, 4265, (*synth*, *uv*, *pmr*)

Harnden, M.R. *et al.*, *J. Med. Chem.*, 1987, **30**, 1636, (*synth*, *uv*, *ir*, *pmr*)

Boyd, M.R. *et al.*, *Antiviral Chem. Chemother.*, 1993, **4**, 3; 13; 25; 37, (*revs*)

Brand, B. *et al.*, *Tetrahedron*, 1999, **55**, 5239-5252, (*synth*, *pmr*, *cmr*)