



>>Entry Name: **Desmopressin**, BAN, INN

Synonym(s): 1-(3-Mercaptopropanoic acid)-8-D-argininevasopressin, gCl. Adiuretin SD. Defirin. Desurin. Minirin. Minrin. Minurin. Stimat. DDAVP. Desmospray. Other names



CAS Registry Number: 16679-58-6

Related CAS Registry Numbers(s): 16789-98-3 62288-83-9

Molecular Formula: C₄₆H₆₄N₁₄O₁₂S₂

Molecular Weight: 1069.23

Accurate Mass: 1068.426956

Percentage Composition: C 51.67%; H 6.03%; N 18.34%; O 17.96%; S 6.00%

General Statement: Synthetic vasopressin analogue

Use/Importance: Antidiuretic. Used to treat nocturnal enuresis and diabetes insipidus. Haemostatic agent used in treatment of mild haemophilia A and von Willebrand's disease

Optical Rotation: $[\alpha]_{\text{D}}^{25} +85.5$ (calc.)

>>Derivative: Ac

Synonym(s): Desmopressin acetate, JAN, USAN

CAS Registry Number: 62357-86-2

Physical Description: Cryst. + 3H₂O

Hazard & Toxicity: LD₅₀ (rat, scu) >2 mg/kg

References:

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Zaoral, M. *et al.*, *Coll. Czech. Chem. Comm.*, 1967, **32**, 1250, (*synth*)
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Manning, M. *et al.*, *J. Med. Chem.*, 1976, **19**, 842, (*synth, pharmacol*)
Cort, J.H. *et al.*, *Int. J. Pept. Protein Res.*, 1981, **17**, 14, (*synth*)
Richardson, D.W. *et al.*, *Ann. Intern. Med.*, 1985, **103**, 228, (*rev, pharmacol*)
Pliska, V., *Front. Horm. Res.*, 1985, **13**, 278, (*rev, pharmacol*)
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