



>>Entry Name: Gliclazide, BAN, INN, JAN

Synonym(s): *N*-[[[(Hexahydrocyclopenta[*c*]pyrrol-2(1*H*)-yl)amino]carbonyl]-4-methylbenzenesulfonamide, 9CI. *N*-(4-Methylbenzenesulfonyl)-*N'*-(3-azabicyclo[3.3.0]oct-3-yl)urea. Diabrezide. Diamicron. Glimicron. Glyclazide. Nordialex. Unava. SE 1702. Many other names



CAS Registry Number: 21187-98-4

Molecular Formula: C₁₅H₂₁N₃O₃S

Molecular Weight: 323.415

Accurate Mass: 323.130362

Percentage Composition: C 55.71%; H 6.54%; N 12.99%; O 14.84%; S 9.91%

Biological Use/Importance: Oral antihyperglycaemic agent

Melting Point: Mp 180-182°

pKa Value: p*K*_a 5.8

Calculated Log P Data: Log P 1.54 (calc)

Hazard & Toxicity: LD₅₀ (rat, orl) 3000 mg/kg. LD₅₀ (rat, ivn) 382 mg/kg. Exp. reprod. and teratogenic effects

References:

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Keen, H. *et al.*, *Int. Congr. Symp. Ser. R. Soc. Med.*, No. 20, 1980

Holmes, B. *et al.*, *Drugs*, 1984, **27**, 301, (*rev*)

Oida, T. *et al.*, *Xenobiotica*, 1985, **15**, 87, (*metab*)

Palmer, K.J. *et al.*, *Drugs*, 1993, **46**, 92, (*rev*)

Martindale, The Extra Pharmacopoeia, 30th edn., *Pharmaceutical Press*, 1993, 279

Winters, C.S. *et al.*, *J. Pharm. Sci.*, 1994, **83**, 300, (*cmr, cryst struct*)

Negwer, M., *Organic-Chemical Drugs and their Synonyms*, 7th edn., *Akademie-Verlag*, 1994, 4770, (*synonyms*)

Parvez, M. *et al.*, *Acta Cryst. C*, 1999, **55**, 74-75, (*cryst struct*)

Lewis, R.J., *Sax's Dangerous Properties of Industrial Materials*, 8th edn., *Van Nostrand Reinhold*, 1992, DBL700