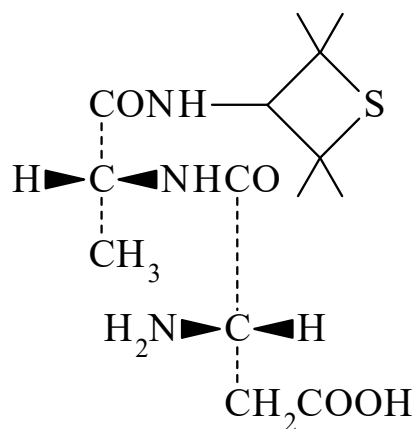




>>Entry Name: Alitame, USAN

ENTRY UNDER REVIEW

Synonym(s): L- α -Aspartyl-N-(2,2,4,4-tetramethyl-3-thietanyl)-D-alaninamide, 9Cl. CP 54802



CAS Registry Number: 80863-62-3

Related CAS Registry Numbers(s): 99016-42-9

Molecular Formula: $C_{14}H_{25}N_3O_4S$

Molecular Weight: 331.435

Accurate Mass: 331.156577

Percentage Composition: C 50.74%; H 7.60%; N 12.68%; O 19.31%; S 9.67%

Use/Importance: Sweetening agent. Intensely sweet, approx. 2000 x sucrose

Physical Description: Solid + 2.5H₂O

Calculated Log P Data: Log P -1.28 (calc)

Other Data: Use currently (1999) permitted in Australia, New Zealand, Indonesia and China

References:

U.S. Pat., 1983, *Pfizer*, 4 411 925; *CA*, **101**, 22238, (*synth, use*)

Lawrence, J.F. *et al.*, *J. Assoc. Off. Anal. Chem.*, 1988, **71**, 934-937, (*chromatog*)

Hendrick, M.E. *et al.*, *Food Sci. Technol.*, 1991, **48**, 29-38, (*rev*)

Ager, D.J. *et al.*, *Angew. Chem., Int. Ed.*, 1998, **37**, 1803-1817, (*rev, synth*)

Hutchinson, S.A. *et al.*, *Food Rev. Int.*, 1999, **15**, 249-261, (*rev*)