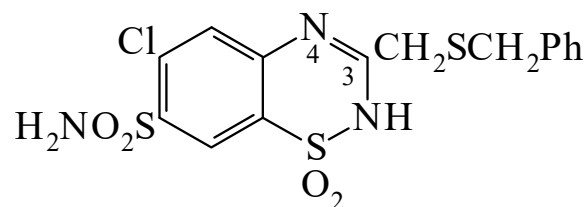




>>Entry Name: **Benzthiazide**, BAN, INN, USAN

Synonym(s): 6-Chloro-3-[[[(phenylmethyl)thio]methyl]-2*H*-1,2,4-benzothiadiazine-7-sulfonamide 1,1-dioxide, 9Cl. 3-[(Benzylthio)methyl]-6-chloro-2*H*-1,2,4-benzothiadiazine-7-sulfonamide 1,1-dioxide, 8Cl. Benzothiazide. Aquatag. Dihyrex. Diucen. Edemax. Fovane. Many other names



CAS Registry Number: 91-33-8

Molecular Formula: C₁₅H₁₄ClN₃O₄S₃

Molecular Weight: 431.944

Accurate Mass: 430.983494

Percentage Composition: C 41.71%; H 3.27%; Cl 8.21%; N 9.73%; O 14.82%; S 22.27%

Use/Importance: Diuretic, saluretic; carbonic anhydrase inhibitor

Physical Description: Cryst. (EtOH)

Melting Point: Mp 236-237°

Hazard & Toxicity: LD₅₀ (rat, orl) >10 g/kg

Sigma: B7149

>>Derivative: 3,4-Dihydro

Synonym(s): **Hydrobentizide**, INN. Dihydrobenzthiazide. Aquazid

CAS Registry Number: 13957-38-5

Molecular Formula: C₁₅H₁₆ClN₃O₄S₃

Molecular Weight: 433.96

Accurate Mass: 432.999144

Percentage Composition: C 41.52%; H 3.72%; Cl 8.17%; N 9.68%; O 14.75%; S 22.17%

Use/Importance: Salidiuretic; carbonic anhydrase inhibitor

Physical Description: Cryst. (MeOH/CHCl₃)

Melting Point: Mp 218-219° (207°)

Calculated Log P Data: Log P 2.09 (uncertain value) (calc)

Other Data: Racemate

References:

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