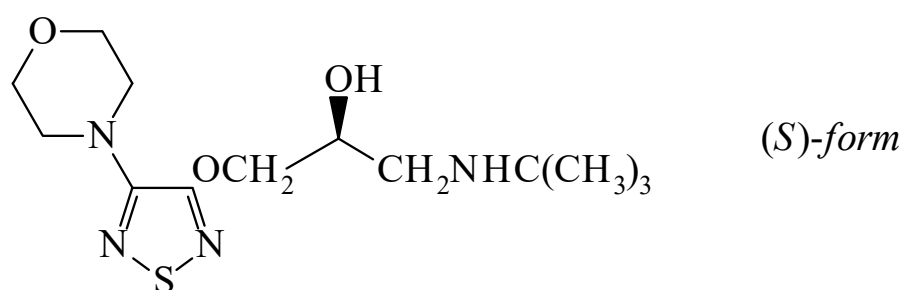




>>>**Entry Name:** Timolol, BAN, INN, USAN

Synonym(s): 1-[(1,1-Dimethylethyl)amino]-3-[[4-(4-morpholinyl)-1,2,5-thiadiazol-3-yl]oxy]-2-propanol, 9Cl. 1-(*tert*-Butylamino)-3-[(4-morpholino-1,2,5-thiadiazol-3-yl)oxy]-2-propanol, 8Cl. Arutimol. Betamol. Betim. Betimol. **Blocadren**[†]. Blocanol. Cusimolol. Dacrysolin. Glaucol. Glau-opt. Glautimol. Optimol. Tenopt. Timacor. Timoptic. Timolate. Timoptol. MK 950. Many other names



CAS Registry Number: 29023-48-1

Related CAS Registry Numbers(s): 91524-16-2

Molecular Formula: C₁₃H₂₄N₄O₃S

Molecular Weight: 316.424

Accurate Mass: 316.156911

Percentage Composition: C 49.35%; H 7.64%; N 17.71%; O 15.17%; S 10.13%

Biological Use/Importance: β-Adrenoceptor antagonist. Antihypertensive. Used in treatment of cardiac disorders and open-angle glaucoma

Development Status: Marketed drug. Approved 1993

Experimental Log P Data: Log P 1.83 (pH 10.2) (exp) Log P −0.52 to 0.2 (pH 7.4) (exp)

>>>**Variant:** (S)-form

CAS Registry Number: 26839-75-8

Molecular Formula: C₁₃H₂₄N₄O₃S

Molecular Weight: 316.424

Accurate Mass: 316.156911

Percentage Composition: C 49.35%; H 7.64%; N 17.71%; O 15.17%; S 10.13%

Physical Description: Oil

Calculated Log P Data: Log P 1.61 (calc)

>>>**Derivative:** Maleate

Synonym(s): Timolol maleate, JAN, USAN. Optimol

CAS Registry Number: 26921-17-5

Melting Point: Mp 201.5-202.5°

Optical Rotation: [α]_D²⁵ −4.2 (c, 5 in 1M HCl)

Solubility: Sol. H₂O, EtOH, MeOH

Other Data: Component of Timolide

Hazard & Toxicity: LD₅₀ (rat, orl) 1028 mg/kg

Sigma: T6394

>>>**Variant:** (±)-form

CAS Registry Number: 47148-57-2

Molecular Formula: C₁₃H₂₄N₄O₃S

Molecular Weight: 316.424

Accurate Mass: 316.156911

Percentage Composition: C 49.35%; H 7.64%; N 17.71%; O 15.17%; S 10.13%

Melting Point: Mp 71.5-72.5°

>>>**Derivative:** Maleate

Melting Point: Mp 161-163°

References: