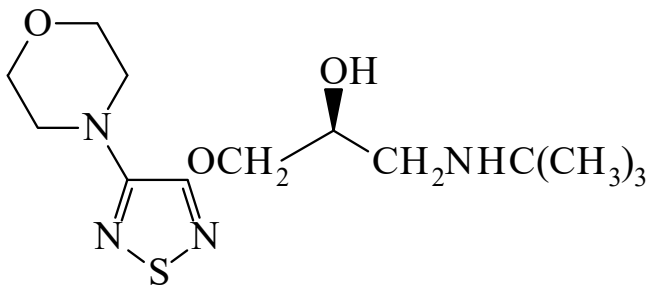
>>**Entry Name: Timolol,** BAN, INN, USAN
Synonym(s): 1-[(1,1-Dimethylethyl)amino]-3-[[4-(4-morpholinyl)-1,2,5-thiadiazol-3-yl]oxy]-2-propanol, 9CI. 1-(*tert*-Butylamino)-3-[(4-morpholino-1,2,5-thiadiazol-3-yl)oxy]-2-propanol, 8CI. Arutimol. Betamol. Betim. Betimol. **Blocadren‡.** Blocanol. Cusimolol.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



(*S*)-*form*

CAS Registry Number: 29023-48-1
Related CAS Registry Numbers(s): 91524-16-2

Molecular Formula: $C_{13}H_{24}N_4O_3S$
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: $C_{13}H_{24}N_4O_3S$
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: $[\alpha]_D^{25}$ –4.2 (c, 5 in 1*M* HCl)
Solubility: Sol. H_2O, EtOH, MeOH
Other Data: Component of Timolide
Hazard & Toxicity: LD_{50} (rat, orl) 1028 mg/kg

Sigma: T6394

>>**Variant:** (±)-form

CAS Registry Number: 47148-57-2
Molecular Formula: $C_{13}H_{24}N_4O_3S$
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: