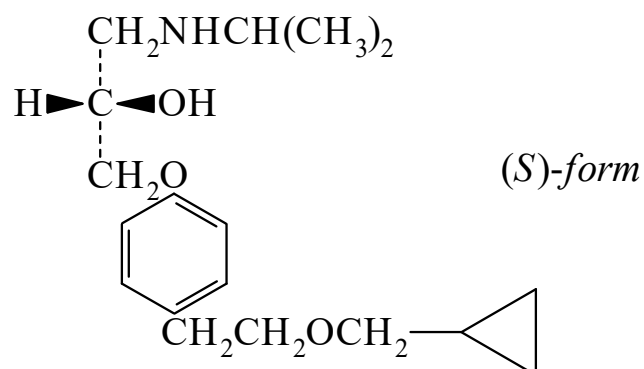




>>Entry Name: Betaxolol, BAN, INN

Synonym(s): 1-[4-(2-Cyclopropylmethoxyethyl)phenoxy]-3-(isopropylamino)-2-propanol



CAS Registry Number: 63659-18-7

Related CAS Registry Numbers(s): 63659-19-8 91878-53-4 108008-10-2

Molecular Formula: C₁₈H₂₉NO₃

Molecular Weight: 307.432

Accurate Mass: 307.214744

Percentage Composition: C 70.32%; H 9.51%; N 4.56%; O 15.61%

Biological Use/Importance: β₁-Adrenoceptor antagonist; antianginal, antihypertensive agent. Used to control intraocular pressure

Development Status: Launched 1983

pK_a Value: pK_a 9.38

Calculated Log P Data: Log P 2.17 (calc)

>>Variant: (*S*)-form

Synonym(s): Levobetaxolol, INN

CAS Registry Number: 93221-48-8

Molecular Formula: C₁₈H₂₉NO₃

Molecular Weight: 307.432

Accurate Mass: 307.214744

Percentage Composition: C 70.32%; H 9.51%; N 4.56%; O 15.61%

Physical Description: Oil

Optical Rotation: [α]_D²³ −5.4 (c, 1 in CHCl₃) (82% ee)

Other Data: More pharmacol. active isomer

>>Derivative: Hydrochloride

Synonym(s): Levobetaxolol hydrochloride, USAN

CAS Registry Number: 116209-55-3

Melting Point: Mp 115°

>>Derivative: Maleate

CAS Registry Number: 93221-49-9

Physical Description: Cryst. (Me₂CO/Et₂O)

Melting Point: Mp 96-97°

Optical Rotation: [α]_D²² −14.9 (c, 2.4 in MeOH)

>>Variant: (±)-form

CAS Registry Number: 87896-30-8

Molecular Formula: C₁₈H₂₉NO₃

Molecular Weight: 307.432

Accurate Mass: 307.214744

Percentage Composition: C 70.32%; H 9.51%; N 4.56%; O 15.61%

Melting Point: Mp 70-72°

>>Derivative: Hydrochloride

Synonym(s): Betaxolol hydrochloride, USAN. Abaxon. Betasel. Betoptic. Kerlone. Midriof. SL 75212. SLD 212. Many other names

CAS Registry Number: 72424-72-7

Melting Point: Mp 116°

Hazard & Toxicity: LD₅₀ (rat, orl) 998 mg/kg. LD₅₀ (rat, ivn) 27.4 mg/kg. Exp. fetotoxic and reprod. effects