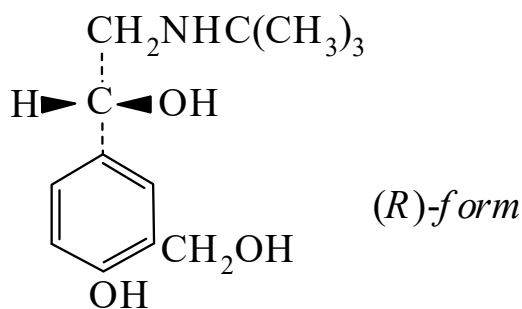




>>Entry Name: Salbutamol, BAN, INN

Synonym(s): α^1 -[[[(1,1-Dimethylethyl)amino]methyl]-4-hydroxy-1,3-benzenedimethanol, 9Cl. **Albuterol**, USAN. Aerolin. Airt. Airomir. Asmasal. Asmaven. Libetist. Maxivent. Proventil. Ventolin. Rimasal. Salamol. Salbulin. Salvuvent. Volmax. AH 3365. Sch 13949W. Many other names



CAS Registry Number: 18559-94-9

Related CAS Registry Numbers(s): 51022-70-9

Molecular Formula: $\text{C}_{13}\text{H}_{21}\text{NO}_3$

Molecular Weight: 239.314

Accurate Mass: 239.152144

Percentage Composition: C 65.25%; H 8.84%; N 5.85%; O 20.06%

Biological Use/Importance: β -Adrenoceptor agonist. Antiasthmatic agent, bronchodilator, muscle relaxant, topical antiinflammatory agent

Development Status: Marketed drug. Launched 1991. Worldwide 99th best selling prescription drug (\$0.52 bn) (GlaxoSmithKline) (2000, Pharma Business)

Calculated Log P Data: Log P 0.11 (calc)

Hazard & Toxicity: Human and exp. reprod. effects. LD_{50} (rat, orl) 660 mg/kg

Sigma: S9416

>>Variant: (R)-form

Synonym(s): Levosalbutamol, INN

CAS Registry Number: 34391-04-3

Molecular Formula: $\text{C}_{13}\text{H}_{21}\text{NO}_3$

Molecular Weight: 239.314

Accurate Mass: 239.152144

Percentage Composition: C 65.25%; H 8.84%; N 5.85%; O 20.06%

Other Data: The more active enantiomer

>>Derivative: Hydrochloride

Synonym(s): Levalbuterol hydrochloride, USAN. Xopenex

CAS Registry Number: 50293-90-8

Melting Point: Mp 185-195 dec.°

Optical Rotation: $[\alpha]_{\text{D}}^{20} -32.2$ (c, 0.1 in H_2O)

>>Derivative: Acetate

Melting Point: Mp 144°

Optical Rotation: $[\alpha]_{\text{D}} -36.9$ (c, 0.27 in MeOH)

>>Variant: (S)-form

CAS Registry Number: 34271-50-6

Molecular Formula: $\text{C}_{13}\text{H}_{21}\text{NO}_3$

Molecular Weight: 239.314

Accurate Mass: 239.152144

Percentage Composition: C 65.25%; H 8.84%; N 5.85%; O 20.06%

>>Derivative: Hydrochloride

Melting Point: Mp 185-195 dec.°

Optical Rotation: $[\alpha]_{\text{D}}^{20} +30.8$ (c, 0.1 in H_2O)