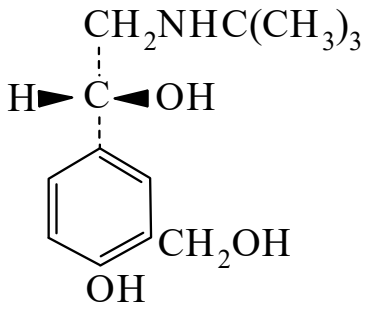
>>**Entry Name: Salbutamol,** BAN, INN

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



(*R*)-*form*

CAS Registry Number: 18559-94-9
Related CAS Registry Numbers(s): 51022-70-9

Molecular Formula: $C_{13}H_{21}NO_3$
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. Launced 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: $C_{13}H_{21}NO_3$
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: $[\alpha]_D^{20}$ –32.2 (c, 0.1 in H_2O)

>>**Derivative:** Acetate

Melting Point: Mp 144°
Optical Rotation: $[\alpha]_D$ –36.9 (c, 0.27 in MeOH)

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

CAS Registry Number: 34271-50-6
Molecular Formula: $C_{13}H_{21}NO_3$
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: $[\alpha]_D^{20}$ +30.8 (c, 0.1 in H_2O)