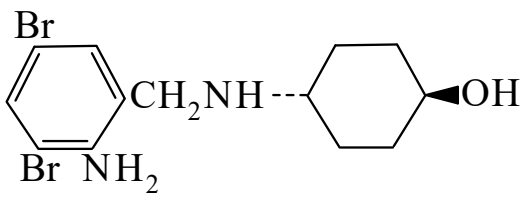
>>**Entry Name: Ambroxol,** INN
**Synonym(s):** 4-[[(2-Amino-3,5-dibromophenyl)methyl]amino]cyclohexanol, 9CI. NA 872




**Related CAS Registry Numbers(s):** 23828-92-4 96989-76-3 107814-37-9

**Molecular Formula:** $C_{13}H_{18}Br_2N_2O$
**Molecular Weight:** 378.106
**Accurate Mass:** 376.018585
**Percentage Composition:** C 41.30%; H 4.80%; Br 42.27%; N 7.41%; O 4.23%
**Source/Synthesis:** Metab. of Bromhexine DVS81-G
**Biological Use/Importance:** Expectorant. Enhances pulmonary surfactant production. Investigated for treatment of paraquat poisoning. Antioxidant props.
**Calculated Log P Data:** Log P 2.32 (calc)
**Hazard & Toxicity:** $LD_{50}$ (rat, ipr) 380 mg/kg

>>**Variant:** (1*RS*,4*RS*)-form
**Synonym(s):** *trans*-form

**CAS Registry Number:** 18683-91-5
**Molecular Formula:** $C_{13}H_{18}Br_2N_2O$
**Molecular Weight:** 378.106
**Accurate Mass:** 376.018585
**Percentage Composition:** C 41.30%; H 4.80%; Br 42.27%; N 7.41%; O 4.23%
**Sigma:** A9797

>>**Derivative:** Hydrochloride
**Synonym(s): Ambroxol hydrochloride,** JAN. Abramen. Ambril. Ambrohexal. Ambrolitic. Amobronc. Bronchopront. Dignobroxol. Expit. Fluibron. Fluixol. Gelopol. Lindoxyl. Lisopulm. Mibrox. Motosol. Mucobron. Mucovent. Pulmonal S. Surfactal. Viscomucil. Many other names

**CAS Registry Number:** 15942-05-9
**Melting Point:** Mp 228-229°
**Hazard & Toxicity:** $LD_{50}$ (rat, orl) 4203 mg/kg. $LD_{50}$ (rat, ipr) 262 mg/kg. Exp. fetotoxic and reprod. effects

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