



>>Entry Name: Lidocaine, INN

Synonym(s): 2-(Diethylamino)-*N*-(2,6-dimethylphenyl)acetamide, 9Cl. 2-(Diethylamino)-2',6'-acetoxylidide, 8Cl. *N*-Diethylaminoacetyl-2,6-dimethylaniline. **Lignocaine**, BAN. Broncaine. Xilina. Xycaine. Xyline. Xylocaine. Many other names



CAS Registry Number: 137-58-6

Related CAS Registry Numbers(s): 6108-05-0

Molecular Formula: C₁₄H₂₂N₂O

Molecular Weight: 234.341

Accurate Mass: 234.173213

Percentage Composition: C 71.76%; H 9.46%; N 11.95%; O 6.83%

Biological Use/Importance: Potassium channel (K_{ATP} and K_{Vol}) blocker. Local anaesthetic, antiarrhythmic agent

Physical Description: Needles (C₆H₆ or EtOH)

Development Status: Approved 1964

Melting Point: Mp 68-69°

Boiling Point: Bp₄ 180-182°

Calculated Log P Data: Log P 2.06 (calc)

Rare Chemicals Library: S38255-8

Sigma: L1138

>>Derivative: Hydrochloride

Synonym(s): Lidocaine hydrochloride, USAN. Xylocard. Xylotox

CAS Registry Number: 73-78-9

Melting Point: Mp 127-129°

Solubility: Sol. H₂O

Hazard & Toxicity: Skin and eye irritant. LD₅₀ (rat, ivn) 21 mg/kg. LD₅₀ (rat, scu) 570 mg/kg

Rare Chemicals Library: S56416-8

>>Derivative: Ethiodide

Synonym(s): QX-314

Molecular Formula: C₁₆H₂₇IN₂O

Molecular Weight: 390.307

Accurate Mass: 390.116811

Percentage Composition: C 49.24%; H 6.97%; I 32.51%; N 7.18%; O 4.10%

Biological Use/Importance: Na channel blocker

Melting Point: Mp 209-210°

References:

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