Bupivacaine hydrochloride

Product Number  B 5274
Store at Room Temperature

Product Description
Molecular Formula: C₁₈H₂₈N₂O • HCl
Molecular Weight: 324.9
CAS Number: 14252-80-3
Melting point: 255-256 °C¹
pKₐ: approximately 8.1²
Synonym: marcaine¹

This product is used as a long-acting local anesthetic.² It is used mainly for infiltration and regional nerve blocks, but is not recommended for topical anesthesia. Slow accumulation can occur with repeated doses.

The UV, MS, NMR, and IR spectra for bupivacaine are reported.³ In particular, the UV trace of a sample dissolved in 0.2 N sulfuric acid shows a maximum at 262 nm with a shoulder at 271 nm. There is also significant end-absorption below 250 nm. The product precipitates in base, so the UV spectrum at pH >7 cannot be readily measured.

Precautions and Disclaimer
For Laboratory Use Only. Not for drug, household or other uses.

Preparation Instructions
This product is soluble in water (50 mg/ml), with heating. It is reported to be soluble at 1 part in 25 parts water and 1 part in 8 parts ethanol.¹ This compound is not very soluble in phosphate buffers. Solutions can be autoclaved.

References
1. The Merck Index, 10th ed., Entry# 1462.

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