Product Information

**Codeine solution**
1.0 mg/mL ±5% in methanol
drug standard

**Catalog Number** C1653
**Lot Number** 088K8752
**Storage Temperature** 2–8 °C

CAS RN 76-57-3
Synonyms: (5α,6α)-7,8-Didehydro-4,5-epoxy-3-methoxy-17-methylmorphinan-6-ol; Methymorphine; Morphine monomethyl ether

Concentration: 0.97 mg of codeine/mL of GC grade methanol, concentration verified by UV.

Expiration Date: September 2010

**Precautions and Disclaimer**
This product is for R&D use only, not for drug, household, or other uses. Please consult the Material Safety Data Sheet for information regarding hazards and safe handling practices.

**Storage/Stability**
Store the product at 2–8 °C. If stored at 2–8 °C in an airtight container, protected from light, decomposition of the product is less than 1% in 24 months. After opening, concentration may change due to loss of solvent.

**Product Description**
Molecular Formula: C$_{18}$H$_{21}$NO$_3$
Molecular Weight: 299.36

DEA Class: Exempt preparation of Class II

**70 eV Electron Ionization Mass Spectrum**

Hewlett-Packard 5890 Series II Gas Chromatograph
Hewlett-Packard 5971 Mass Selective Detector
Hewlett-Packard G1034C MS ChemStation (HP-DOS series)
FT-IR

Nicolet Magna IR Spectrometer Series II

Ultraviolet Spectrum

- Peak: 284.0 nm
- Absorbance: 0.6213
- Solvent: 0.2 N H$_2$SO$_4$
- Dilution: 1:9 (v/v)

Capillary Gas Chromatography

- Column: Supelco SPB-1 (Catalog Number 24162)
- I.D. 0.20 mm Length 15 m Film Thickness 0.20 µm
- Oven Temperature: 150 °C (2 minutes), then 15 °C/minute to 300 °C, hold 18 minutes
- Injector Temperature: 250 °C, Split
- Detector: Hewlett-Packard 5971
  Mass Selective Detector (70 eV, 40-500 m/z)

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