Product Information

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

Catalog Number **C1653**
Lot Number 060M8703
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: Morpine monomethyl ether

Concentration: 1.00 mg of codeine/mL of GC grade methanol, concentration verified by UV.

Expiration Date: July 2012

**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

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**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 380 FT-IR Thermo Smart Orbit

**Ultraviolet Spectrum**

<table>
<thead>
<tr>
<th>Peak</th>
<th>283.5 nm</th>
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<tbody>
<tr>
<td>Absorbance</td>
<td>0.5983</td>
</tr>
<tr>
<td>Solvent</td>
<td>0.2 N H₂SO₄</td>
</tr>
<tr>
<td>Dilution</td>
<td>1:9 (v/v)</td>
</tr>
</tbody>
</table>

**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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