

## Product Information

### Caffeine solution

1.0 mg/mL±5% in methanol

analytical standard, for drug analysis

Catalog Number **C6035**

Lot Number SLBD4121V

Storage Temperature 2–8 °C

CAS RN 58-08-2

Synonyms: Coffeinum, Guanine, Methyltheobromine

Concentration: 1.00 mg Caffeine/mL GC grade methanol (concentration verified by UV)

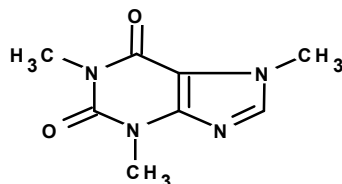
Expiration Date: September 2015

### 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 48 months. After opening, concentration may change due to loss of solvent.



### Product Description

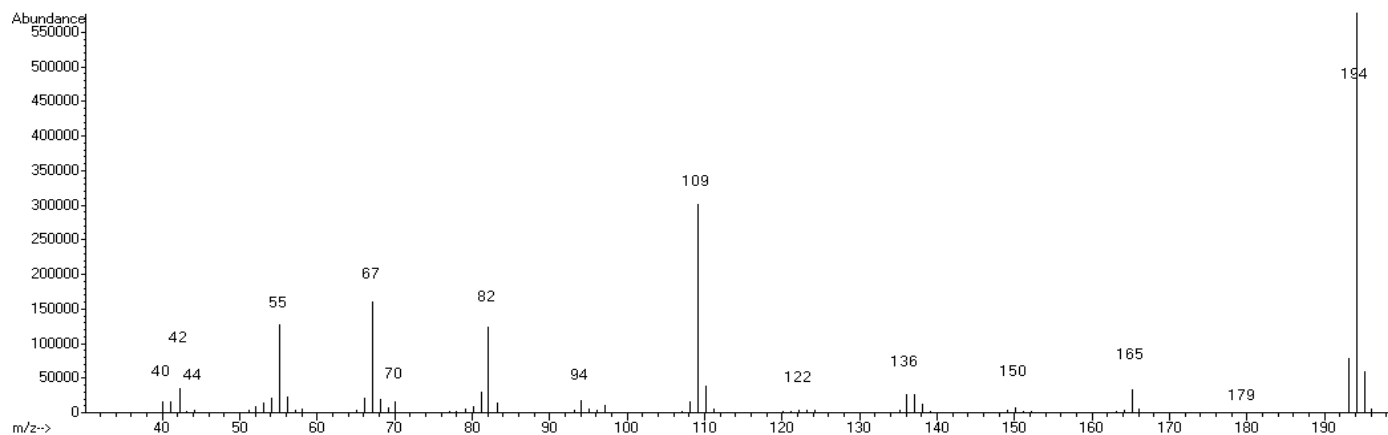
Molecular Formula: C<sub>8</sub>H<sub>10</sub>N<sub>4</sub>O<sub>2</sub>

Molecular Weight: 194.19

DEA Class: Formulation of a non-controlled substance

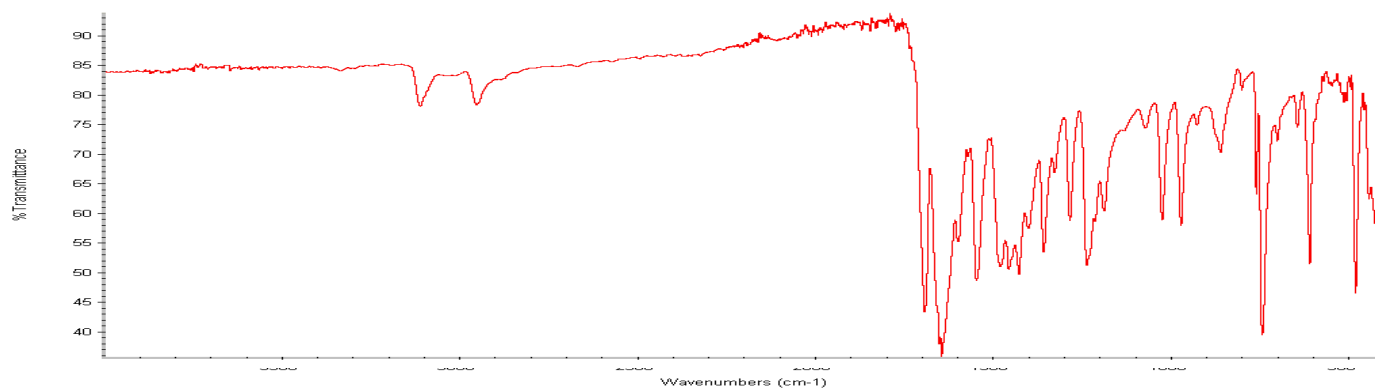
CMW,MAM 10/12-1

### 70 eV Electron Ionization Mass Spectrum



Hewlett-Packard 6890 Series II Gas Chromatograph  
Hewlett-Packard 5973 Mass Selective Detector  
Hewlett-Packard G1701DA MS ChemStation (HP-DOS series)

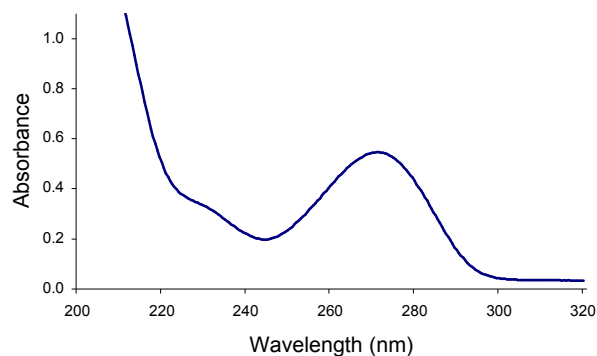
# FT-IR



Nicolet 380 FT-IR with Thermo Smart Orbit attachment

## Ultraviolet Spectrum

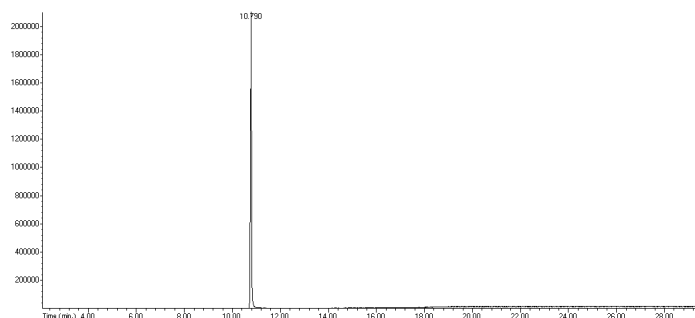
<b>Peak</b>	271.0 nm
<b>Absorbance</b>	0.5466
<b>Solvent</b>	0.2 N H <sub>2</sub> SO <sub>4</sub>
<b>Dilution</b>	1:99 (v/v)



Beckman-Coulter DU 800

## 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** 50 °C (2 minutes), then  
 15 °C/minute to 300 °C, hold 11 minutes  
**Injector Temperature** 250 °C, Split  
**Detector** Hewlett-Packard 5973  
 Mass Selective Detector (70 eV, 40-500 m/z)



Hewlett-Packard 6890