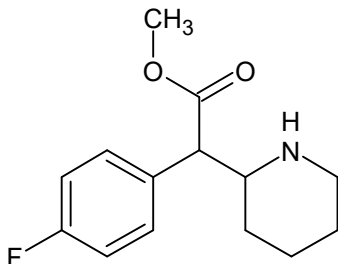




4-Fluoromethylphenidate

The Drug Enforcement Administration's Special Testing and Research Laboratory generated this monograph using structurally confirmed reference material.



1. GENERAL INFORMATION

IUPAC Name: methyl 2-(4-fluorophenyl)-2-(piperidin-2-yl)acetate

CAS#: 1354631-33-6

Synonyms: NA

Source: DEA Reference Material Collection

Appearance: white powder (HCl)

UV_{max}(nm): Not determined

2. CHEMICAL AND PHYSICAL DATA

2.1 CHEMICAL DATA

| Form | Chemical Formula | Molecular Weight | Melting Point (°C) |
|------|--|------------------|--------------------|
| Base | C ₁₄ H ₁₈ FNO ₂ | 251.3 | Not Determined |
| HCl | C ₁₄ H ₁₈ FNO ₂ HCl | 287.8 | 222.0 |



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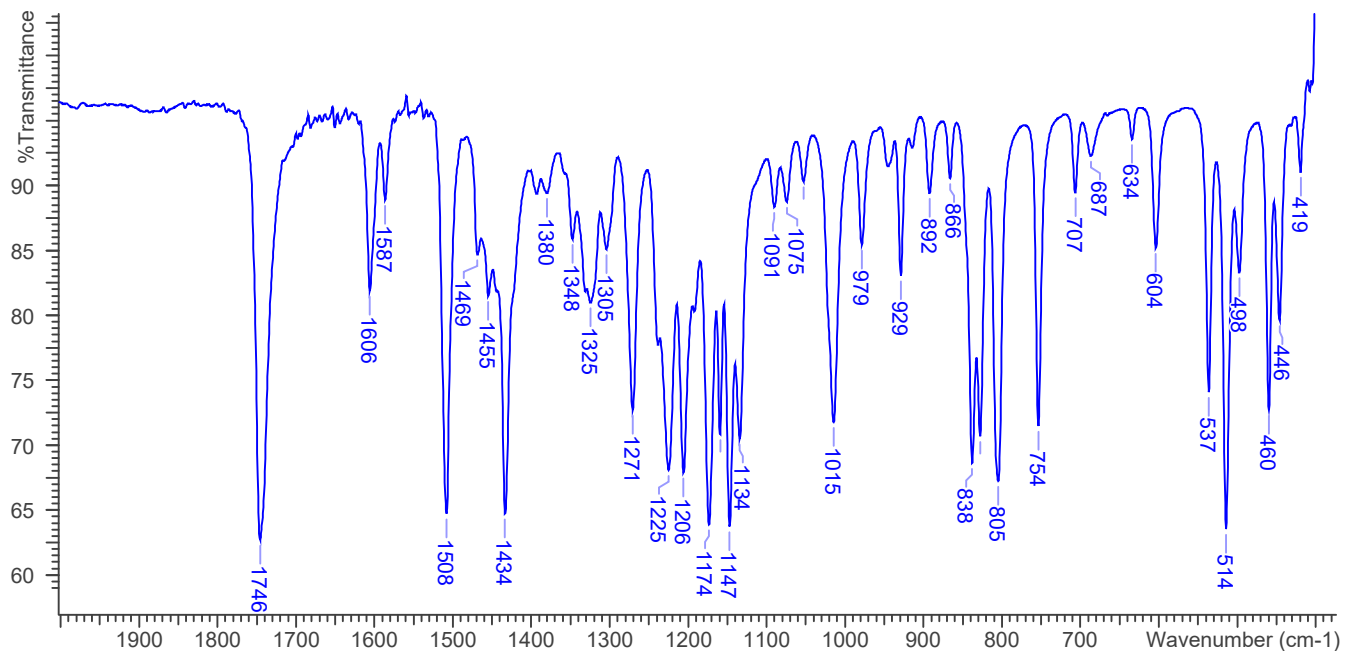
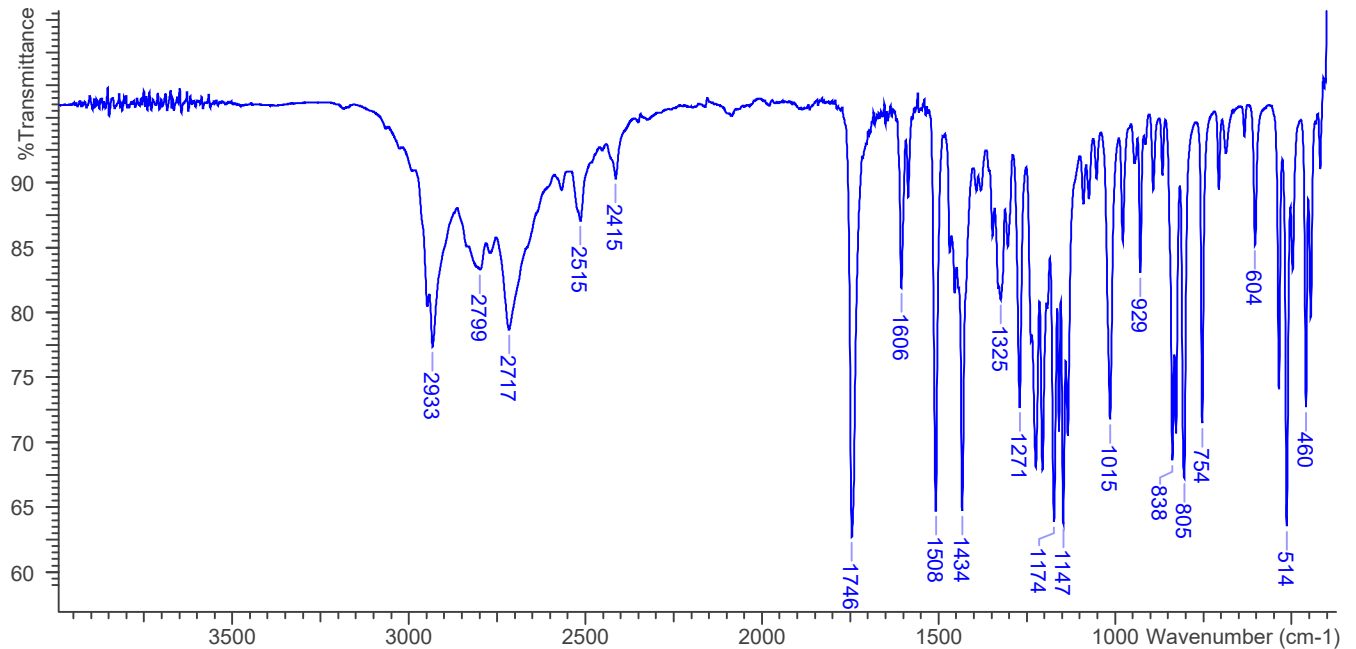


3.3 INFRARED SPECTROSCOPY (FTIR)

Instrument: FTIR with diamond ATR attachment (1 bounce)

Scan Parameters:
Number of scans: 32
Number of background scans: 32
Resolution: 4 cm⁻¹
Sample gain: 1
Aperture: 150

FTIR ATR (Diamond 1 Bounce): 4-Fluoromethylphenidate HCl; LOT # 0480761-9





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4. ADDITIONAL RESOURCES

[*Wikipedia*](#)