

1. GENERAL INFORMATION

IUPAC Name: *rel*-2-[(1R,3S)-3-hydroxycyclohexyl]-5-(2-methylnonan-2-yl)phenol

CFR: Schedule I

CAS#: 70434-92-3

Synonyms: (±)-CP 47,497-C8-homolog, (C8)-CP 47,497, Cannabicyclohexanol, 5-(1,1-dimethyloctyl)-2-[(1R,3S)-3-hydroxycyclohexyl]-phenol

Source: DEA Reference Material Collection

Appearance: White powder

Kovat's Index: Pending

UV_{max} (nm): 274.5

2. CHEMICAL AND PHYSICAL DATA

2.1 CHEMICAL DATA

Form	Chemical Formula	Molecular Weight	Melting Point (°C)
CP 47,497-C8-homolog	C ₂₂ H ₃₆ O ₂	332	89.4

3. ADDITIONAL RESOURCES

[Forendex](#)

[Wikipedia](#)

Uchiyama, N.; Kikura-Hanajiri, R.; Ogata, J.; Goda, Y. Chemical analysis of synthetic cannabinoids as designer drugs in herbal products. *For. Sci. Int.* **2010**, *198*, 31-38.

4.2 Gas Chromatography/Mass Spectrometry

Sample Preparation: Dilute analyte ~ 1 mg/mL in methanol

Instrument: Agilent gas chromatograph operated in split mode with MS detector

Column: DB-1 MS (or equivalent); 30m x 0.25 mm x 0.25 μ m

Carrier Gas: Helium at 1 mL/min

Temperatures: Injector: 280°C

MSD transfer line: 280°C

MS Source: 230°C

MS Quad: 150°C

Oven program:

1) 100°C initial temperature for 1.0 min

2) Ramp to 300°C at 12 °C/min

3) Hold final temperature for 9.0 min

Injection Parameters: Split Ratio = 20:1, 1 μ L injected

MS Parameters: Mass scan range: 30-550 amu

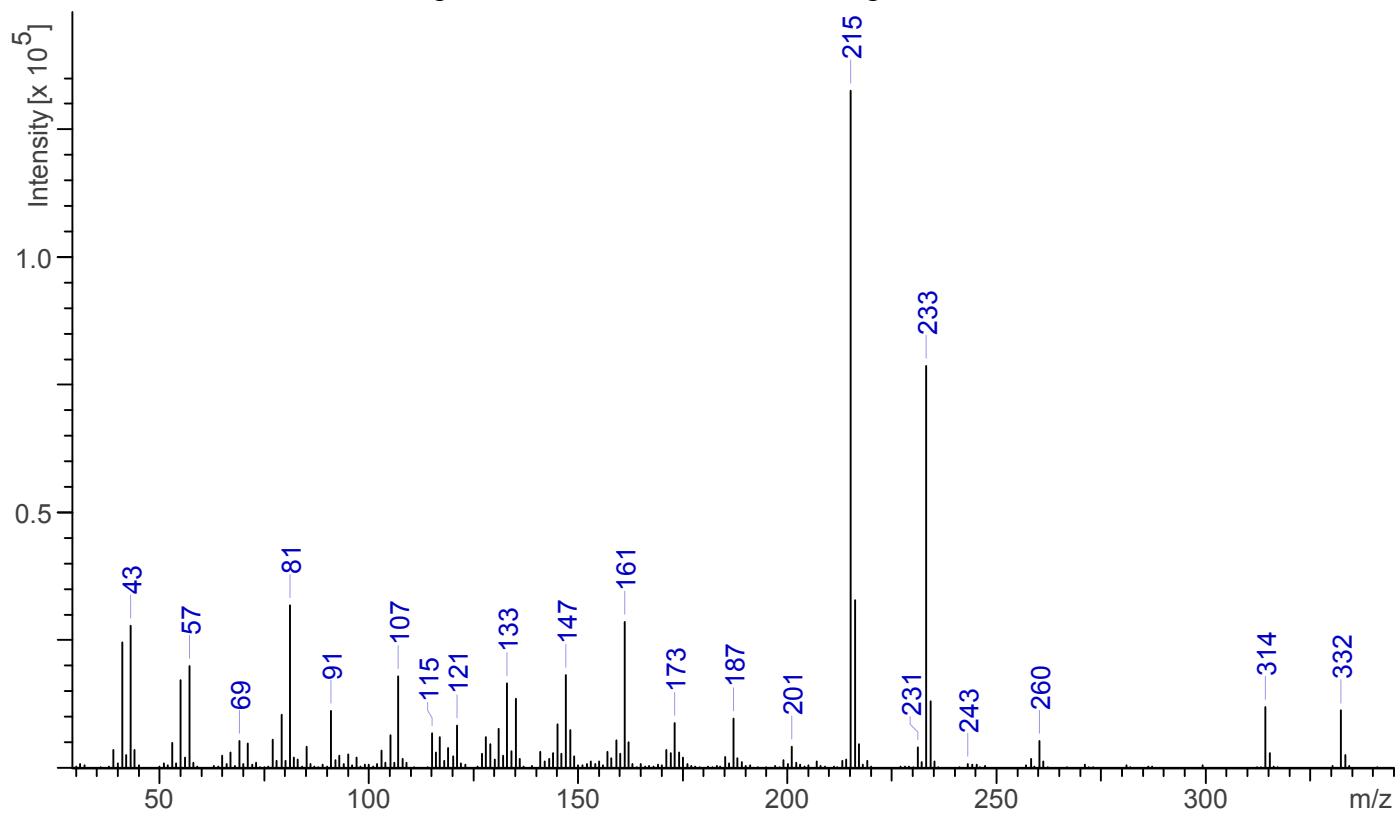
Threshold: 100

Tune file: stune.u

Acquisition mode: scan

Retention Time: 16.864 min

EI Mass Spectrum: CP 47, 497-C8-homolog; Lot 0425163-4



4.3 INFRARED SPECTROSCOPY (FTIR)

Instrument: FTIR with diamond ATR attachment (3 bounce)

Scan Parameters: Number of scans: 32
Number of background scans: 32
Resolution: 4 cm⁻¹
Sample gain: 8
Aperture: 150

FTIR ATR (Diamond, 3 Bounce): CP 47,497-C8-homolog; Lot 0425163-4

