

## ANALYTICAL REPORT

(±)-CP 47,497-C8-homolog (C22H36O2)

**2-(3-hydroxycyclohexyl)-5-(2-methylnonan-2-yl)phenol**

Remark – other active cpd. detected: **none**

Sample ID:	1463-16
Sample description:	liquid - clear
Sample type:	RM-reference material
Comments-source <sup>1</sup> :	Cayman Lot#0473393-1; I-SEE - purchasing
Date of entry:	2/19/2016

Substance identified-structure <sup>2</sup> (base form)	
Systematic name:	2-(3-hydroxycyclohexyl)-5-(2-methylnonan-2-yl)phenol
Other names:	Cannabicyclohexanol
Formula (per base form)	C22H36O2
M <sub>w</sub> (g/mol)	332.53
Salt form:	base
StdInChIKey	HNMJDLVMIUDJNH-UHFFFAOYSA-N
Compound Class	Cannabinoids
Other active cpd. detected	none
Add.info (purity..)	10mg/ml in MeOH

<sup>1</sup> This report has been produced with the financial support of the Prevention of and fight against crime Programme of the European Union (grant agreement number JUST/2013/ISEC/DRUGS/AG/6426). The contents of this report are the sole responsibility of the National Forensic Laboratory and can in no way be taken to reflect the views of the European Commission.

<sup>2</sup> Created by OPSIN free tool: <http://opsin.ch.cam.ac.uk/> DOI: 10.1021/ci100384d

## Report updates

date	comments (explanation)

## Supporting information

Analytical technique:	applied	remarks
GC-MS (EI ionization)	+	NFL GC-RT (min): 10.74 BP(1): 215; BP(2): 233,BP(3) :216,
FTIR-ATR	-	
GC-IR (condensed phase)	-	

### GC-MS (Agilent):

GC-method is RT locked to tetracosane (RT=9.53 min).

Injection volume 1 ml and split mode (1:50) .

Injector temperature: 280 °C.

Chromatographic separation

Column: HP1-MS (100% dimethylpolysiloxane), length 30 m, internal diameter 0.25 mm, film thickness 0.25 mm.

Carrier gas He: flow-rate 1.2 ml/min. GC oven program: 170 °C for 1 min, followed by heating up to 293 °C at a rate of 18 °C/min, hold for 6.1 min, then heating at 50 °C/min up to 325 °C and finally 2.8 min isothermal.

MSD source EI = 70 eV. GC-MS transfer line T= 235°C, source and quadrupole temperatures 280°C and 180°C, respectively. Scan range m/z scan range: from 50 (30 until 6 min) to 550 (300) amu.

**FTIR-ATR** (Perkin Elmer): scan range 4000-400 cm<sup>-1</sup>; resolution 4cm<sup>-1</sup>

**GC- (MS)-IR** condensed phase (GC-MS (Agilent) & IR (Spectra analyses-Danny) IR scan range 4000 to 700, resolution 4cm<sup>-1</sup>

GC-method:

Injection volume 1 ml and split mode (1:5) .

Injector temperature: 280 °C.

Chromatographic separation

Column: HP1-MS (100% dimethylpolysiloxane), length 30 m, internal diameter 0.25 mm, film thickness 0.25 mm.

Carrier gas He: flow-rate 1.2 ml/min. GC oven program: 170 °C for 1 min, followed by heating up to 293 °C at a rate of 18 °C/min, hold for 6.1 min, then heating at 50 °C/min up to 325 °C and finally 2.8 min isothermal.

Split MS : IR : (1:9)

MSD source EI = 70 eV. GC-MS transfer line T= 235°C, source and quadrupole temperatures 280°C and 180°C, respectively. Scan range m/z scan range: from 50 (30 until 6 min) to 550 (300) amu.

IR (condensed phase): IR scan range 4000 to 700, resolution 4cm<sup>-1</sup>

# FIGURES OF SPECTRA

MS (EI)

