

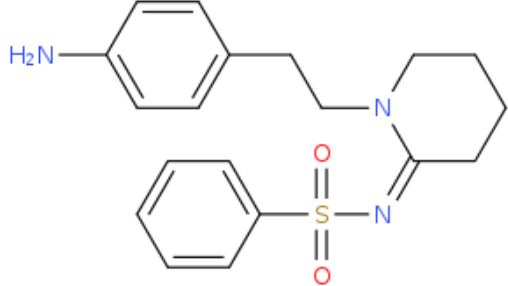
## ANALYTICAL REPORT

### Deschloro-W-19 (C<sub>19</sub>H<sub>23</sub>N<sub>3</sub>O<sub>2</sub>S)

#### N-[(2Z)-1-[2-(4-aminophenyl)ethyl]piperidin-2-ylidene]benzenesulfonamide

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

Sample ID:	1709-16
Sample description:	powder - yellow-bright
Sample type:	RM-reference material
Comments <sup>1</sup> :	CAY Lot#04829213; RESPONSE -purchasing
Date of entry:	1/6/2017

Substance identified-structure <sup>2</sup> (base form)	
Systematic name:	N-[(2Z)-1-[2-(4-aminophenyl)ethyl]piperidin-2-ylidene]benzenesulfonamide
Other names:	(Z)-N-(1-(4-aminophenethyl)piperidin-2-ylidene)benzenesulfonamide
Formula (per base form)	C <sub>19</sub> H <sub>23</sub> N <sub>3</sub> O <sub>2</sub> S
M <sub>w</sub> (g/mol)	357,47
Salt form:	HCl
StdInChIKey (per base form)	LEPJQUCPARWIPK-VZCXRCSSA-N
Other active cpd. detected	none
Add.info (purity..)	98%

<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/6413). 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): 17,54 BP(1): 119; BP(2): 77,BP(3) :106,
FTIR-ATR	+	direct measurement
GC-IR (condensed phase)	+	always as base form

**1. GC-MS** (Agilent): GC-method is RT locked to tetracosane (9.258 min). Injection volume 1 ml and split mode (1:50). Injector temperature: 280 °C. Chromatographic separation: on column HP1-MS (100% dimethylpolysiloxane), length 30 m, internal diameter 0.25 mm, film thickness 0.25 µm. Carrier gas He: flow-rate 1.2 ml/min. GC oven program: 170 °C for 1 min, followed by heating up to 190 °C at rate 8 °C/min, then heating up to 293 °C at a rate of 18 °C/min, hold for 7.1 min, then heating at 50 °C/min up to 325 °C and finally 6.1 min isothermal. MSD source EI = 70 eV. GC-MS transfer line T= 235°C, source and quadropole temperatures 280°C and 180°C, respectively. Scan range m/z scan range: from 50 (30 until 6 min.) to 550 (300 until 6 min) amu.

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

**3. GC- (MS)-IR** condensed phase (GC-MS (Agilent) & IR (Spectra analyses-Danny)

GC-method: Injection volume 1 ml and split mode (1:5). Injector temperature 280 °C. Chromatographic separation as above (1). Split MS : IR = 1 : 9.

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

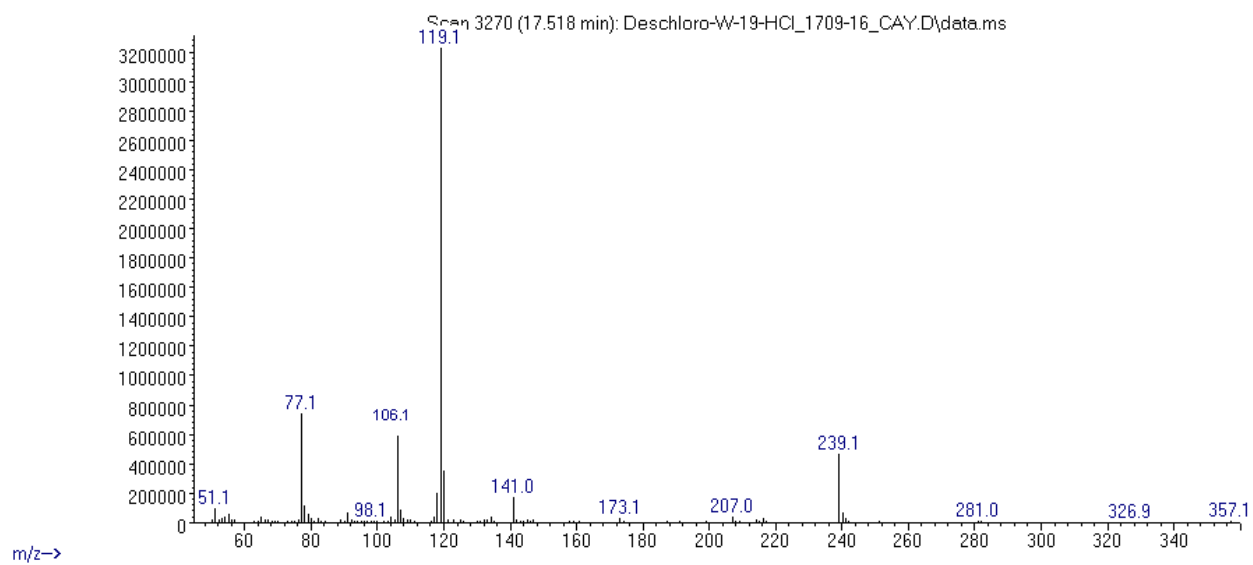
IR (condensed (solid) phase): IR scan range 4000 to 650, resolution 4 cm<sup>-1</sup>.

4. HPLC-TOF for exact monoisotopic mass and empirical formula control - results are not shown in the report.

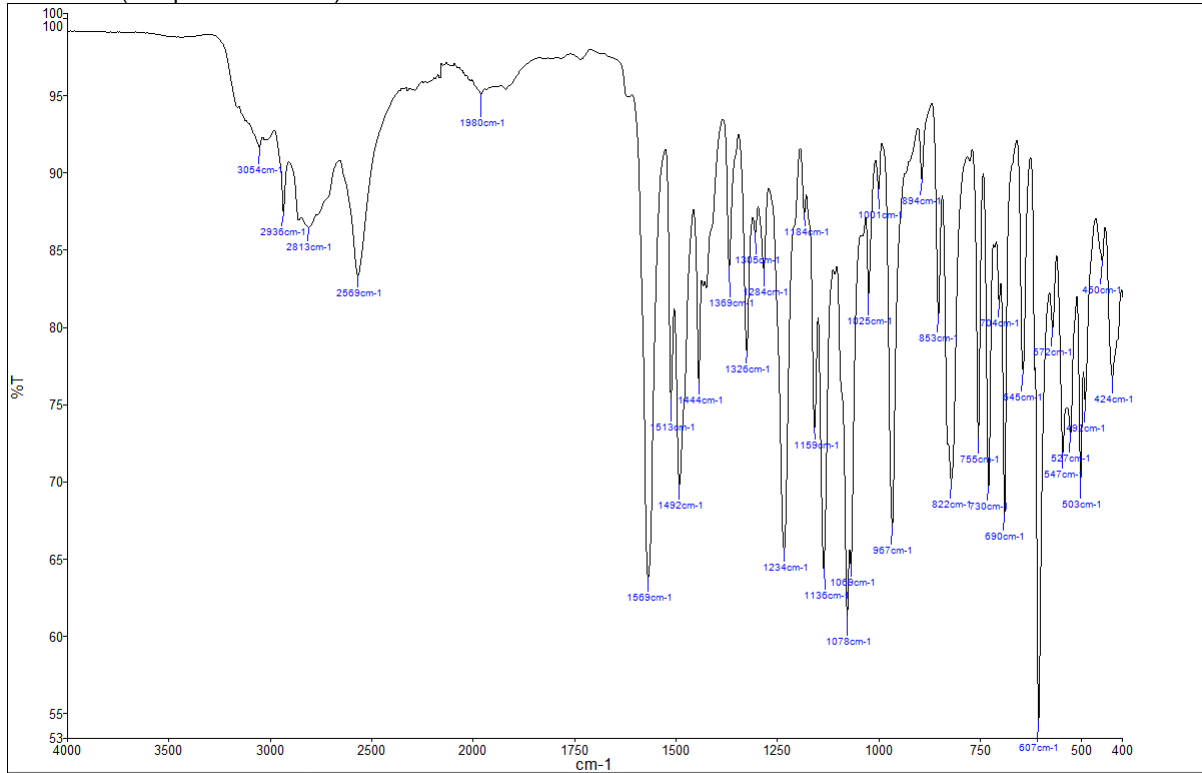
# FIGURES OF SPECTRA

MS (EI)

Abundance

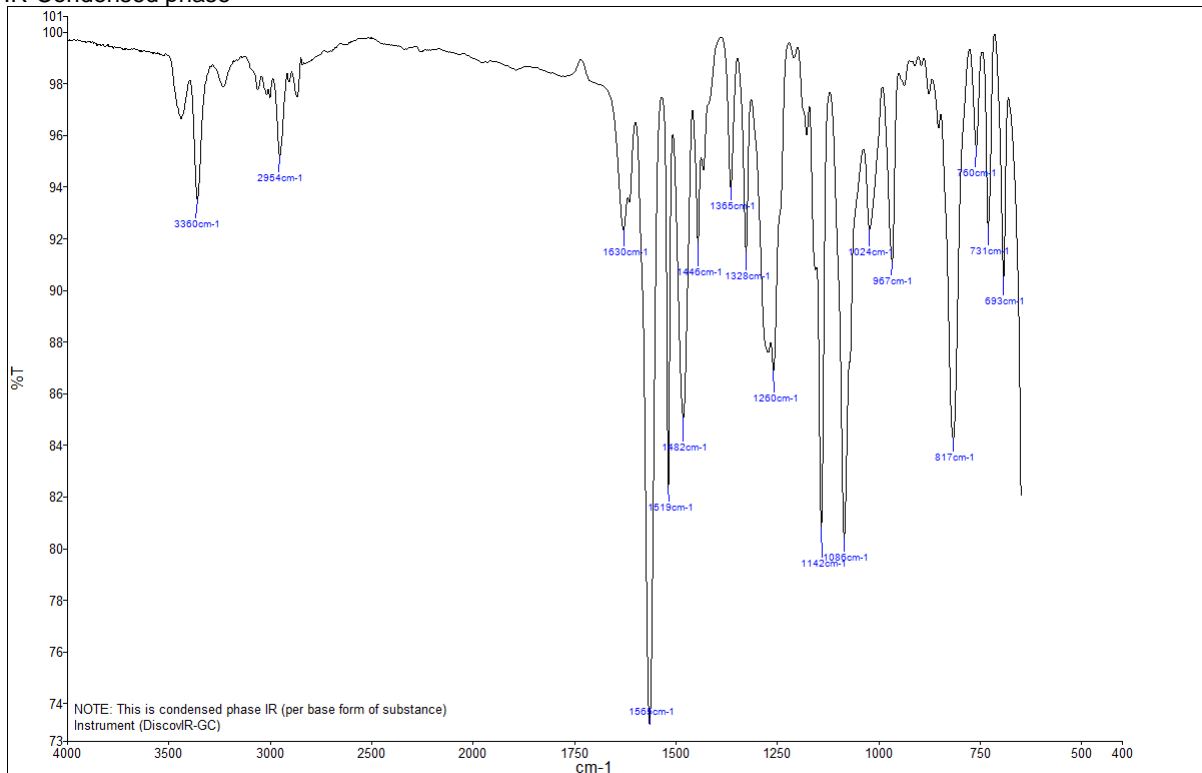


FTIR-ATR (sample as received)



Name	Description
Deschloro-W-19_HCl_1709-16_CAY_IR-A	ID:1709-16;(Z)-N-(1-(4-aminophenethyl)piperidin-2-ylidene)benzenesulfonamide-HCl_Lot#0482921-3

IR-Condensed phase



Name	Description
Deschloro-W-19_HCl_1709-16_Cay_IR-C.spc	Sample_ID:1709-16;(Z)-N-(1-(4-aminophenethyl)piperidin-2-ylidene)benzenesulfonamide-HCl_Lot#0482921-3