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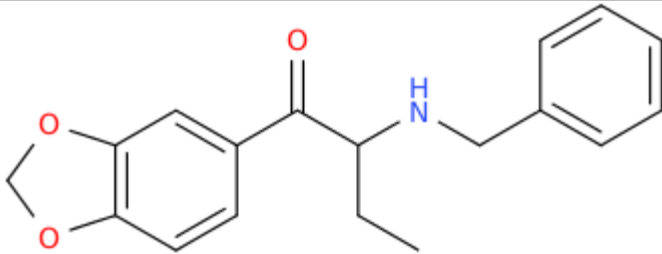
ANALYTICAL REPORT

BMDB (C₁₈H₁₉NO₃)

1-(2H-1,3-benzodioxol-5-yl)-2-(benzylamino)butan-1-one; 1-(1,3-benzodioxol-5-yl)-2-(benzylamino)butan-1-one

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

Sample ID:	1799-17
Sample description:	powder - white
Sample type:	RM-reference material
Comments ¹ :	CHIRON Batch# 15 367; RESPONSE -purchasing
Date of entry:	12/04/2017

Substance identified- structure ² (base form)		
Systematic name:	1-(2H-1,3-benzodioxol-5-yl)-2-(benzylamino)butan-1-one;	1-(1,3-benzodioxol-5-yl)-2-(benzylamino)butan-1-one
Other names:	2-Benzylamino-1-(3,4-methylenedioxyphenyl)butan-1-one	
Formula (per base form)	C ₁₈ H ₁₉ NO ₃	
M _w (g/mol)	297,35	
Salt form:	HCl	
StdInChIKey (per base form)	ROBPFIVMZCNMJW-UHFFFAOYSA-N	
Other active cpd. detected	none	
Add.info (purity..)	99,8%	

¹ 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.

² 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): 9,22 BP(1): 91; BP(2): 148,BP(3) :149,
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⁻¹; resolution 4cm⁻¹

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.

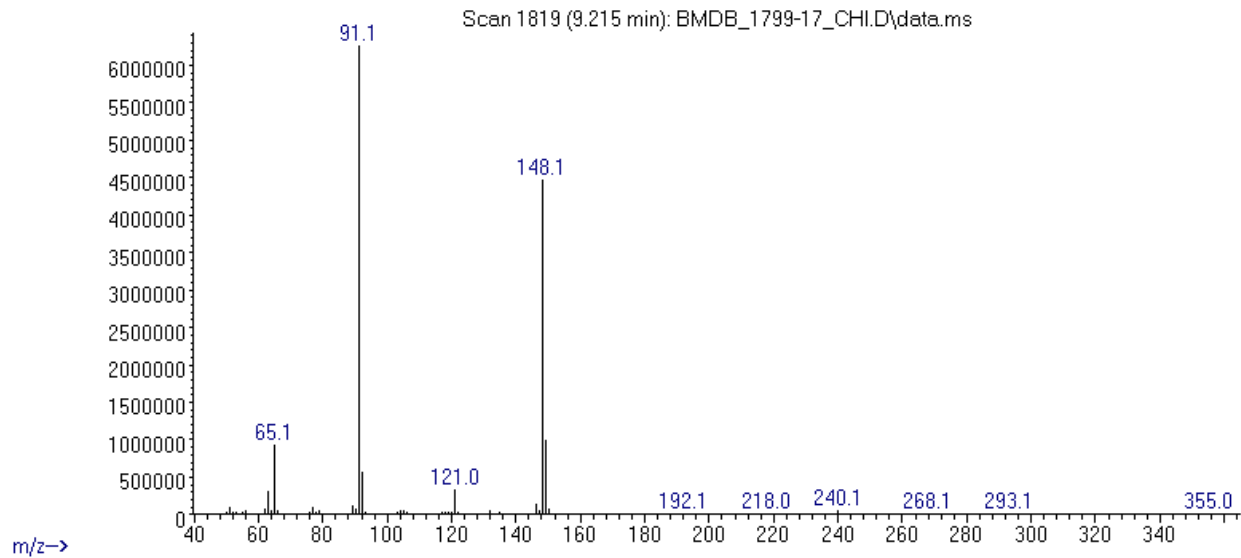
IR (condensed (solid) phase): IR scan range 4000 to 650, resolution 4 cm⁻¹.

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

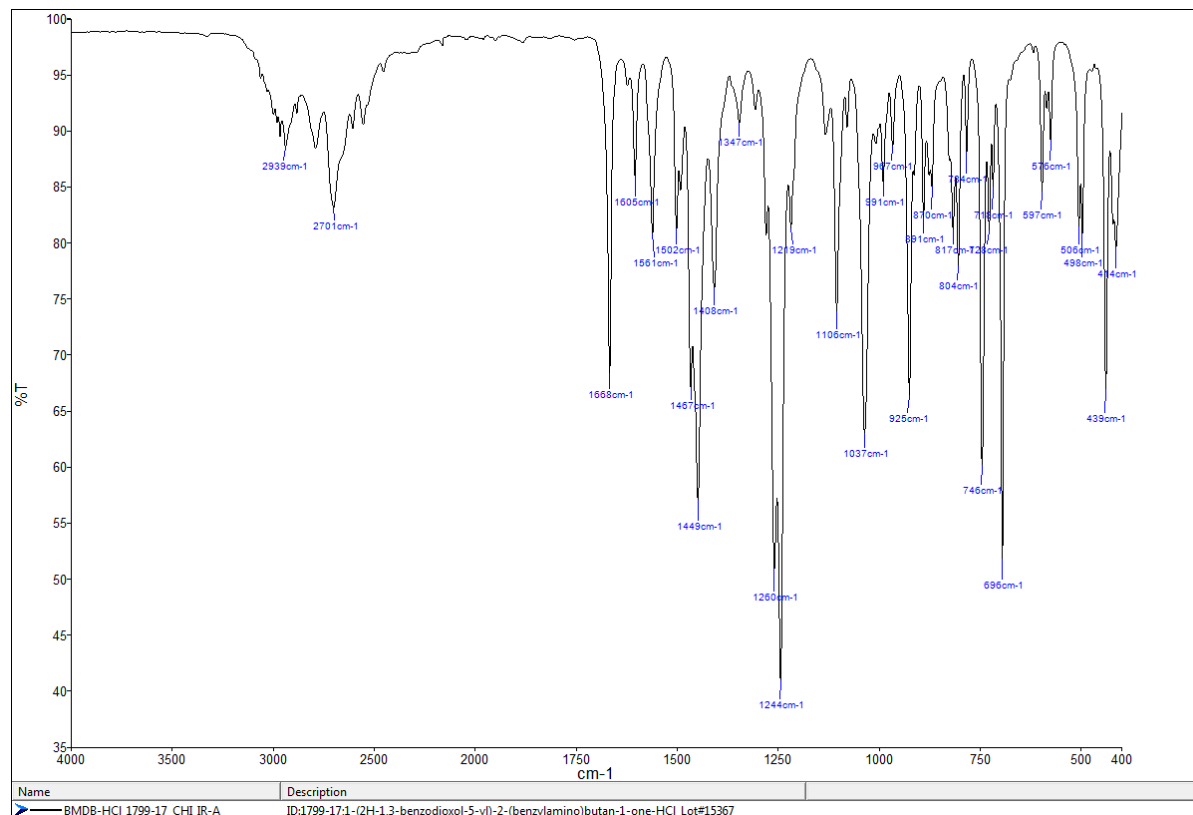
ANALYTICAL RESULTS

MS (EI)

Abundance



FTIR-ATR - sample as received



IR (condensed phase – after chromatographic separation)

