



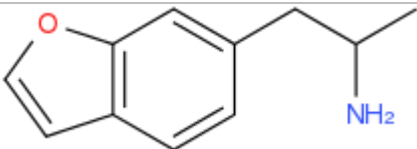
## ANALYTICAL REPORT

### 6-APB (C<sub>11</sub>H<sub>13</sub>NO)

#### 6-(2-aminopropyl)benzofuran

Remark – other NPS detected: **none**

Sample ID:	1168-15A
Sample description:	powder - white
Sample type:	RM-reference material
Comments:	LGC Lot#19281
Date of entry:	3/23/2015

Substance identified-structure <sup>i</sup> (base form)	
Systematic name	6-(2-aminopropyl)benzofuran
Other names	6-APB
Formula (per base form)	C <sub>11</sub> H <sub>13</sub> NO
M <sub>w</sub> (g/mol)	175,23
Salt form	HCl
Smiles	NC(CC1=CC2=C(C=CO2)C=C1)C
Compound Class	Arylalkylamines
Other NPS detected	none
Add.info (purity..)	99,60%

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## Supporting information

Analytical technique:	applied	remarks
GC-MS (EI ionization)	+	NFL GC-RT (min): 3,65 BP(1): 44; BP(2): 131,BP(3) :77,
FTIR-ATR	+	

GC-MS (Agilent): GC-method is RT locked to tetracosane (RT=9.53 min). Injection volume 1 ml and split mode (1:50) for GC-MS instruments and 1:5 for GC-MS-FTIR (condensed phase). Injector temperature: 280 °C. 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 quadropole temperatures 280 °C and 180 °C. m/z scan range: from 50 (40) to 550 amu.

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

FTIR (Spectra analyses-Danny): scan range 4000 to 700, resolution 4cm<sup>-1</sup>

Abundance

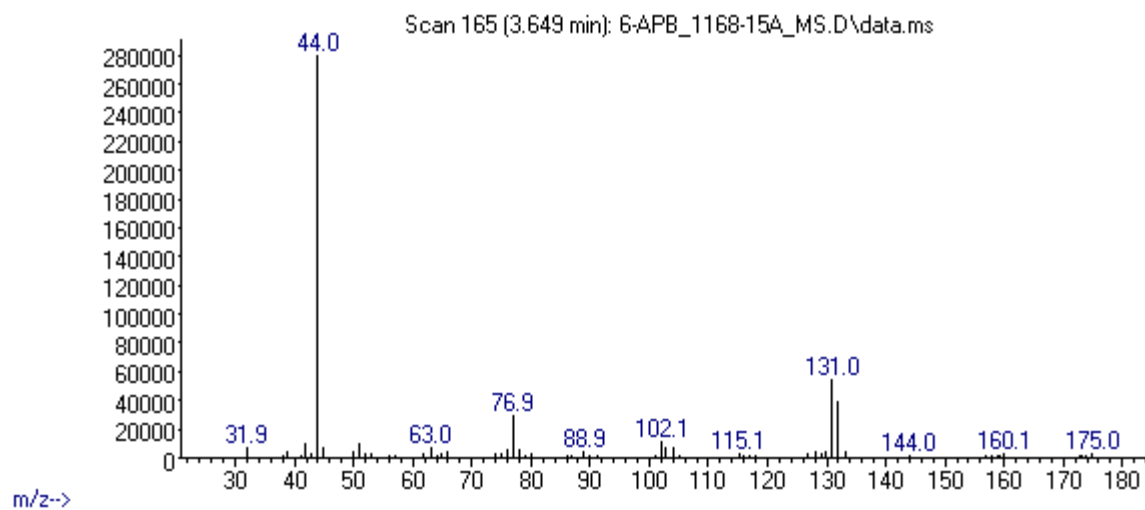
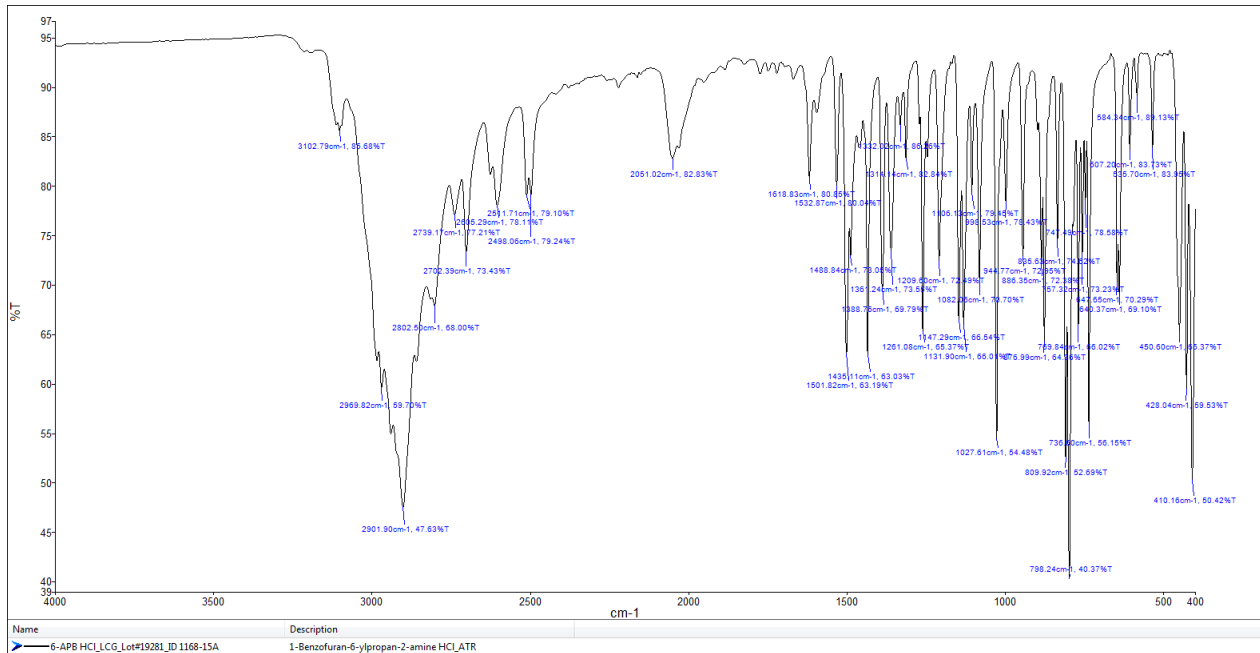


Figure 1: GC-MS spectrum



**Figure 2: FTIR ATR**

<sup>1</sup> Created by OPSIN free tool: <http://opsin.ch.cam.ac.uk/> DOI: 10.1021/ci100384d