## ANALYTICAL REPORT

### 2-Methoxyamphetamine (C10H15NO)

1-(2-methoxyphenyl)propan-2-amine

<table>
<thead>
<tr>
<th>Sample ID:</th>
<th>1210-15</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sample description:</td>
<td>powder - white</td>
</tr>
<tr>
<td>Sample type:</td>
<td>RM-reference material</td>
</tr>
<tr>
<td>Comments¹:</td>
<td>Chiron AS Lot#13820 (RESPONSE -purchasing)</td>
</tr>
<tr>
<td>Date of entry:</td>
<td>8/31/2015</td>
</tr>
</tbody>
</table>

**Substance identified-structure² (base form)**

![Structure of 2-Methoxyamphetamine](image)

**Systematic name:** 1-(2-methoxyphenyl)propan-2-amine

**Other names:**

- C10H15NO
- Mw (g/mol): 165.23
- Salt form: HCl
- StdInChIKey: VBAHFEPKESUPDE-UHFFFAOYSA-N
- Compound Class: Phenethylamines
- Other active cpd. detected: none
- Add.info (purity..): 99.10%

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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/](http://opsin.ch.cam.ac.uk/) DOI: 10.1021/ci100384d
# Supporting information

<table>
<thead>
<tr>
<th>Analytical technique:</th>
<th>applied</th>
<th>remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>GC-MS (EI ionization)</td>
<td>+</td>
<td>NFL GC-RT (min): 2.85&lt;br&gt;BP(1): 44; BP(2): 91, BP(3): 122,</td>
</tr>
<tr>
<td>FTIR-ATR</td>
<td>+</td>
<td>direct measurement</td>
</tr>
<tr>
<td>GC-IR (condensed phase)</td>
<td>+</td>
<td>spectrum is always for the base form of compound</td>
</tr>
</tbody>
</table>

1. 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, than 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^{-1}; resolution 4cm^{-1} GC-FTIR (Spectra analyses-Danny): scan range 4000 to 700, resolution 4cm^{-1}

**FIGURES OF SPECTRA**

Abundence

![Abundence](https://example.com/spectrum.png)

- m/z: 32, 65, 77, 91, 107, 122, 135, 150, 165
- MS(EI)
FTIR-ATR direct measurement

Sample: 2-Methoxyamphetamine HCl 1210-15

Transmission

NOTE: This is condensed phase IR (per base form of substance)
Instrument (Discovery-GC)