# ANALYTICAL REPORT

## 2-MAPB (C12H15NO)

1-(Benzofuran-2-yl)-N-methylpropan-2-amine,

<table>
<thead>
<tr>
<th>Sample ID:</th>
<th>4245-183/2015</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sample description:</td>
<td>powder</td>
</tr>
<tr>
<td>Analyses/report (date):</td>
<td>3/ MAREC 2015</td>
</tr>
<tr>
<td>Sample type:</td>
<td>S-seized</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Substance identified-structure</th>
<th><img src="image" alt="Structure" /></th>
</tr>
</thead>
<tbody>
<tr>
<td>Systematic name</td>
<td>1-(Benzofuran-2-yl)-N-methylpropan-2-amine</td>
</tr>
<tr>
<td>Other names</td>
<td>2-MAPB, 2-[2,N-Dimethyl-2-aminoethyl]benzofuran</td>
</tr>
<tr>
<td>Formula (per base form)</td>
<td>C12H15NO</td>
</tr>
<tr>
<td>$M_w$ (g/mol)</td>
<td>189.24</td>
</tr>
<tr>
<td>Salt form</td>
<td>HCl</td>
</tr>
<tr>
<td>Other compounds detected</td>
<td>none</td>
</tr>
<tr>
<td>Smiles</td>
<td>O1C(=CC2=C1C=CC=C2)CC(C)NC</td>
</tr>
<tr>
<td>Compound Class</td>
<td>Arylalkylamines</td>
</tr>
</tbody>
</table>

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.
Supporting information

<table>
<thead>
<tr>
<th>Analytical technique</th>
<th>applied</th>
<th>remarks</th>
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<tbody>
<tr>
<td>GC-MS</td>
<td>+</td>
<td>extracted in CH2Cl2</td>
</tr>
<tr>
<td>FTIR-ATR</td>
<td>+</td>
<td>direct measurement</td>
</tr>
<tr>
<td>FTIR (condensed phase)</td>
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<tr>
<td>HPLC-TOF</td>
<td>-</td>
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<tr>
<td>NMR-confirmed</td>
<td>+</td>
<td>validation</td>
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<tr>
<td>other</td>
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</tbody>
</table>

**MS spectrum (EI)**

Scan 197 (3.976 min); 4245.1831 ppm; data ms
1 Created by OPSIN free tool: http://opsin.ch.cam.ac.uk/ DOI: 10.1021/ci100384d

FTIR - ATR

\[\text{\textsuperscript{1} Created by OPSIN free tool: http://opsin.ch.cam.ac.uk/ DOI: 10.1021/ci100384d}\]
REPORT

Sample ID: 4245-183/2015
Received date: March 3, 2015
Our notebook code: P-4245-183-2015
NMR sample preparation: 15 mg dissolved in 0.7 mL DMSO-d6
NMR experiments: ¹H, ¹³C, ¹H–¹H gs-COSY, ¹H–¹³C gs-HSQC, ¹H–¹³C gs-HMBC, ¹H–¹⁵N gs-HMBC, ¹H–¹H NOESY
Proposed structure with chemical name:

\[
\text{\begin{tikzpicture}
\draw (-1,0) -- (1,0);\draw (-1,0.5) -- (-1,0);\draw (1,0.5) -- (1,0);
\draw (-1,0.5) -- (-1,1);\draw (1,0.5) -- (1,1);
\draw (-1,1) -- (0,2);\draw (1,1) -- (0,2);
\draw (-1,1) -- (-1,2);\draw (0,1) -- (0,2);
\draw (0,1) -- (1,0);
\draw (-1,1) -- (0,0);
\draw (0,0) -- (0,0.5);
\draw (0,1) -- (0,1.5);
\draw (0,2) -- (0,2.5);
\draw (0,0) -- (0,0.5);
\draw (0,1) -- (0,1.5);
\draw (0,2) -- (0,2.5);
\draw (0,0) -- (0,0.5);
\draw (0,1) -- (0,1.5);
\draw (0,2) -- (0,2.5);
\draw (0,0) -- (0,0.5);
\draw (0,1) -- (0,1.5);
\draw (0,2) -- (0,2.5);
\draw (0,0) -- (0,0.5);
\draw (0,1) -- (0,1.5);
\draw (0,2) -- (0,2.5);
\draw (0,0) -- (0,0.5);
\draw (0,1) -- (0,1.5);
\draw (0,2) -- (0,2.5);
\draw (0,0) -- (0,0.5);
\draw (0,1) -- (0,1.5);
\draw (0,2) -- (0,2.5);
\end{tikzpicture}}
\text{NH}
\text{HCl}
\text{1-(benzofuran-2-yl)-N-methylpropan-2-amine hydrochloride}

Comments:
- Structure elucidation based on 1D and 2D NMR spectra
- Compound is pure by NMR
Supporting information:
Copies of ¹H and ¹³C NMR spectra
Author: Prof. Dr. Janez Košmrlj
Date of report: March 13, 2015