ANALYTICAL REPORT

25N-NBOMe (C18H22N2O5)

2-(2,5-Dimethoxy-4-nitrophenyl)-N-(2-methoxybenzyl)ethanamine

Remark – other active cpd. detected: none

Sample ID: 1621-16
Sample description: powder - yellow
Sample type: RM-reference material
Comments¹: CAY Lot#0454599; RESPONSE -purchasing
Date of entry: 10/26/2016

Substance identified-structure² (base form)

Systematic name: 2-(2,5-Dimethoxy-4-nitrophenyl)-N-(2-methoxybenzyl)ethanamine
Other names: 2C-N-NBOMe, NBOMe-2C-N
Formula (per base form) C18H22N2O5
M_w (g/mol) 346.38
Salt form: HCl
StdInChIKey TXCKTIBHURMASQ-UHFFFAOYSA-N
Compound Class Phenethylamines
Other active cpd. detected none
Add.info (purity..) 98%

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

<table>
<thead>
<tr>
<th>date</th>
<th>comments (explanation)</th>
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Supporting information

<table>
<thead>
<tr>
<th>Analytical technique:</th>
<th>applied</th>
<th>remarks</th>
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<tbody>
<tr>
<td>GC-MS (EI ionization)</td>
<td>+</td>
<td>NFL GC-RT (min): 11,42 BP(1): 121; BP(2): 91, BP(3): 150,</td>
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<tr>
<td>FTIR-ATR</td>
<td>+</td>
<td>direct measurement</td>
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<tr>
<td>GC-IR (condensed phase)</td>
<td>+</td>
<td>always as base form</td>
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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 6.1 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 quadrupole 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)


   MSD source EI = 70 eV. GC-MS transfer line T= 235°C, source and quadrupole 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.

   IR (condensed (solid) phase): IR scan range 4000 to 650, resolution 4 cm⁻¹.
FTIR-ATR (sample as received)

IR-Condensed phase

NOTE: This is condensed phase IR (per base form of substance)

Instrumart (DiscovIR-GC)