



ANALYTICAL REPORT

25D-NBOMe (C₁₉H₂₅N₀₃)

[2-(2,5-dimethoxy-4-methylphenyl)ethyl][(2-methoxyphenyl)methyl]amine

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

| | |
|-------------------------|--|
| Sample ID: | 1465-16 |
| Sample description: | powder - brownish |
| Sample type: | RM-reference material |
| Comments ¹ : | Cayman Lot#0471244-3; I-SEE - purchasing |
| Date of entry: | 2/19/2016 |

| | |
|---|---|
| Substance identified-structure ² (base form) | |
| Systematic name: | [2-(2,5-dimethoxy-4-methylphenyl)ethyl][(2-methoxyphenyl)methyl]amine |
| Other names: | NBOMe-2C-D |
| Formula (per base form) | C ₁₉ H ₂₅ N ₀₃ |
| M _w (g/mol) | 315.41 |
| Salt form: | HCl |
| StdInChIKey | UTVHBNXCFSATDB-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/6426). 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): 9.47 BP(1): 121; BP(2): 150,BP(3) :91, |
| FTIR-ATR | - | |
| GC-IR (condensed phase) | - | |

GC-MS (Agilent):

GC-method is RT locked to tetracosane (RT=9.53 min).

Injection volume 1 ml and split mode (1:50) .

Injector temperature: 280 °C.

Chromatographic separation

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 quadrupole temperatures 280°C and 180°C, respectively. Scan range m/z scan range: from 50 (30 until 6 min) to 550 (300) amu.

FTIR-ATR (Perkin Elmer): scan range 4000-400 cm⁻¹; resolution 4cm⁻¹

GC- (MS)-IR condensed phase (GC-MS (Agilent) & IR (Spectra analyses-Danny) IR scan range 4000 to 700, resolution 4cm⁻¹

GC-method:

Injection volume 1 ml and split mode (1:5) .

Injector temperature: 280 °C.

Chromatographic separation

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.

Split MS : IR : (1:9)

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) amu.

IR (condensed phase): IR scan range 4000 to 700, resolution 4cm⁻¹

FIGURES OF SPECTRA

MS (EI)

Abundance

