

1. SYNONYMS

CFR: Not Listed

CAS #: None

Other Names: 3-[2-(Diisopropylamino)ethyl]-5-methoxyindole
FOXY

2. CHEMICAL AND PHYSICAL DATA

2.1. CHEMICAL DATA

Form	Chemical Formula	Molecular Weight	Melting Point (°C)
Hydrochloride	C ₁₇ H ₂₇ N ₂ OCl	310.9	181-182

2.2. SOLUBILITY

Form	A	C	E	H	M	W
Hydrochloride	***	S	***	***	S	S

A = acetone, C = chloroform, E = ether, H = hexane, M = methanol and W = water, VS = very soluble, FS = freely soluble, S = soluble, PS = sparingly soluble, SS = slightly soluble, VSS = very slightly soluble and I = insoluble

Note: 5-Methoxy-N,N-diisopropyltryptamine is soluble in dilute mineral acids and organic acids.

3. SCREENING TECHNIQUES

3.1. COLOR TESTS

REAGENT	COLOR PRODUCED
Van Urk's	Purple to Blue (2 min.)

3.2. THIN LAYER CHROMATOGRAPHY

Visualization

Van Urk's reagent

COMPOUND	Relative R _f System TLC 18
dimethyltryptamine	0.32
diethyltryptamine	0.89
5-methoxy- α -methyltryptamine	0.70
5-methoxydiisopropyltryptamine	1.0 (8.05 cm)

3.3. GAS CHROMATOGRAPHY

Method DMT-GCSI

Instrument:

Gas chromatograph operated in split mode with FID

Column:

J&W DB-1 15 m x 0.32 mm x 0.25 μ m film thickness

Carrier gas:

Helium at 1.3 mL/min

Temperatures:

Injector: 275°C
Detector: 280°C
Oven program:
190°C for 10 min

Injection Parameters:

Split Ratio = 60:1, 1 μ L injected

Samples are to be dissolved in chloroform, washed with dilute sodium carbonate and filtered.

COMPOUND	RRT	COMPOUND	RRT
indole	0.12	DET	0.37
MDA	0.15	C-4 phthalate	0.38
MDMA	0.17	5-MeO-AMT	0.42

tryptamine	0.23	5-MeODMT	0.46
AMT	0.24	DIPT	0.58
DMT	0.26	C-5 phthalate	0.65
caffeine	0.28	5-MeODIPT	1.00 (7.14 min)

4. SEPARATION TECHNIQUES

Generally, this compound is found in tablet form but may be encountered as a free flowing or encapsulated powder. Because the tableting material or diluents are frequently chloroform insoluble, the sample can be washed with chloroform to yield 5-MeODIPT (HCl). Interference from precursor material, intermediates, and by-products may require a simple liquid-liquid extraction. Dissolve the sample in chloroform and wash with dilute sodium carbonate. The organic layer can then be evaporated for analysis.

5. QUANTITATIVE PROCEDURES

5.1. GAS CHROMATOGRAPHY

Method NCL-DIPT-GCQ1

Internal Standard Stock Solution:

0.80 mg/mL dibutylphthalate in chloroform.

Standard Solution Preparation:

Accurately weigh and prepare a standard solution of 5-MeODIPT approximately equivalent to 1.0 mg/mL using above internal standard stock solution. Wash with dilute sodium carbonate solution and filter through cotton or glass wool.

Sample Preparation:

Accurately weigh an amount of sample into a volumetric flask and dilute with internal standard stock solution. If necessary, dilute the sample so the final concentration approximates the standard concentration or falls within the linear range. Wash with dilute sodium carbonate solution and filter through cotton.

Instrument: Gas chromatograph operated in split mode with FID

Column: J&W DB-1, 15 m x 0.32 mm x 0.25 µm film thickness

Carrier gas: Helium at 1.3 mL/min

Temperatures: Injector: 275°C
 Detector: 280°C
 Oven: 190°C for 10 min

Injection Parameters: Split Ratio = 60:1, 1 µL injected

Typical Retention Time: Dibutylphthalate: 2.73 min.
 5-MeODIPT: 7.16 min.

Linear Range: 0.01 - 4.00 mg/mL

Repeatability: RSD less than 1.0%

Correlation Coefficient: 0.999

Accuracy: Error less than 5%

COMPOUND	RRT
indole	0.12
dimethyltryptamine	0.26
diethyltryptamine	0.37
dipentylphthalate (C-5)	0.65
5-MeODIPT	1.0 (7.14 min)

6. QUALITATIVE DATA

See spectra on the following pages for [FT-IR](#), [Mass Spectrometry](#), [Vapor Phase IR](#), [Raman](#), and [Nuclear Magnetic Resonance](#).

7. REFERENCES

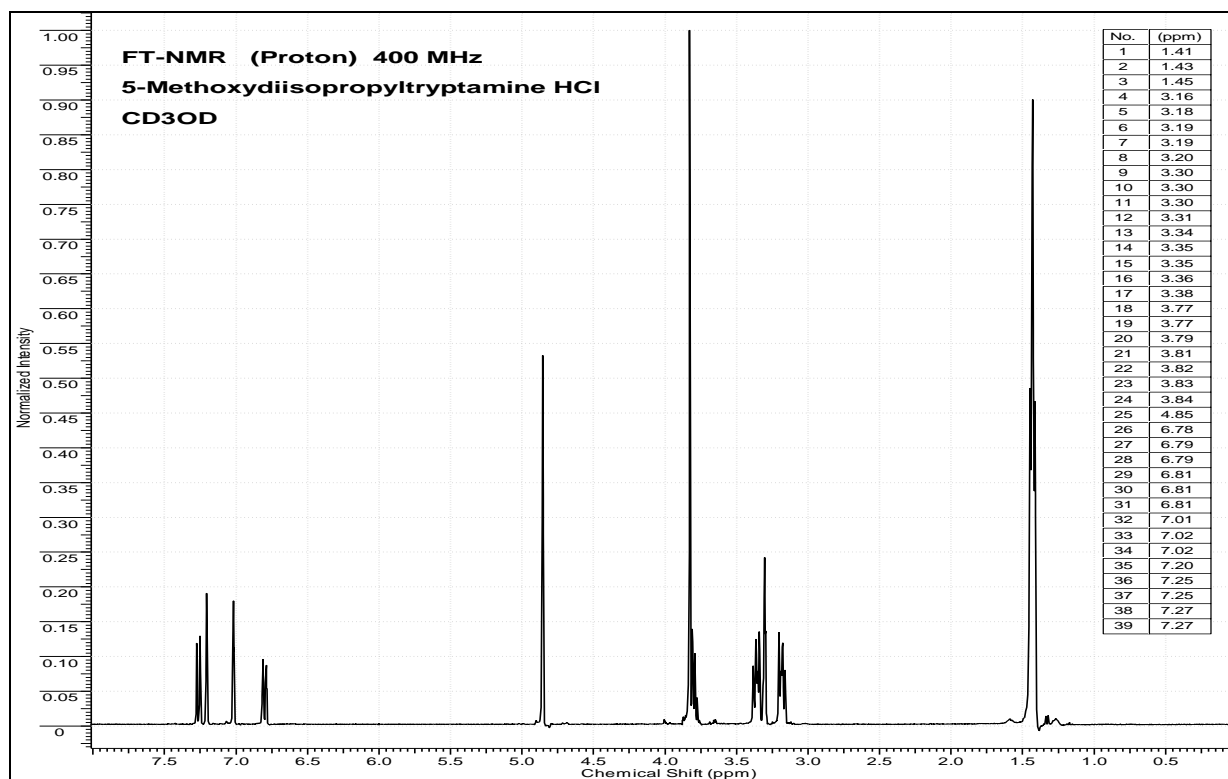
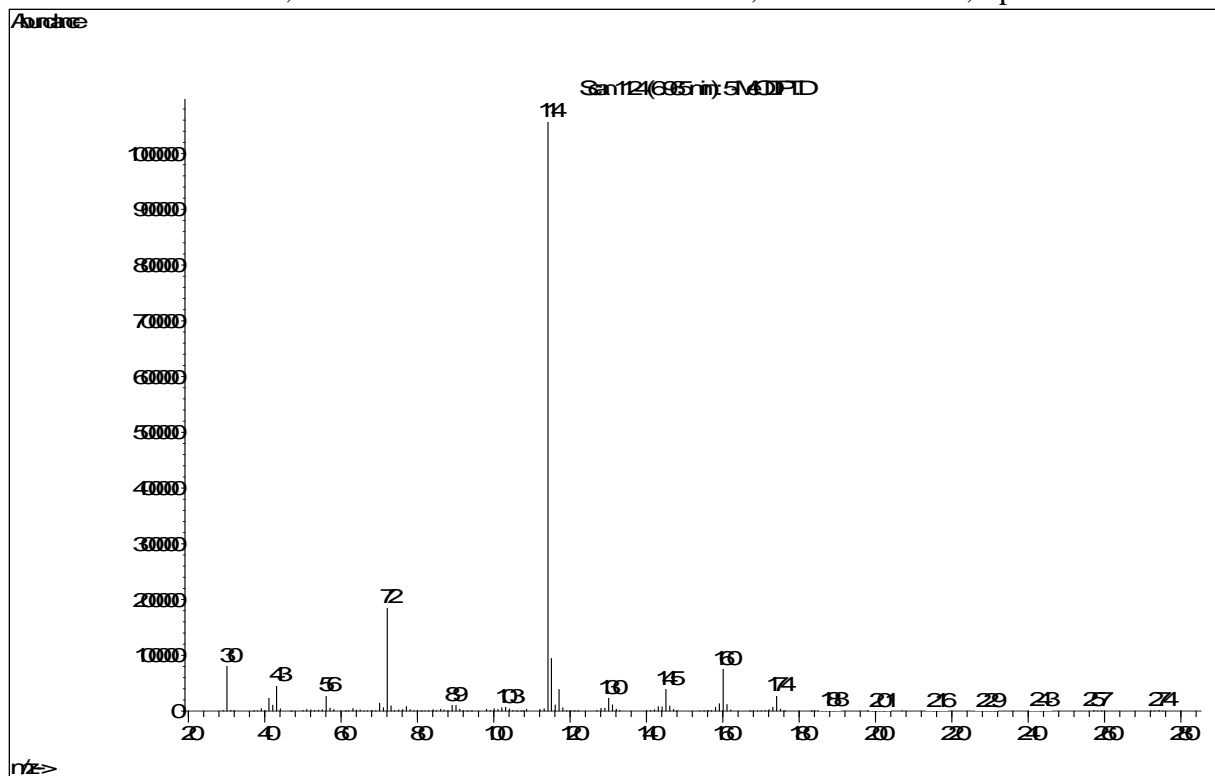
Shulgin, A. T. and Shulgin A., *TIHKAL*, Transform Press, Berkeley, Ca., 1997.

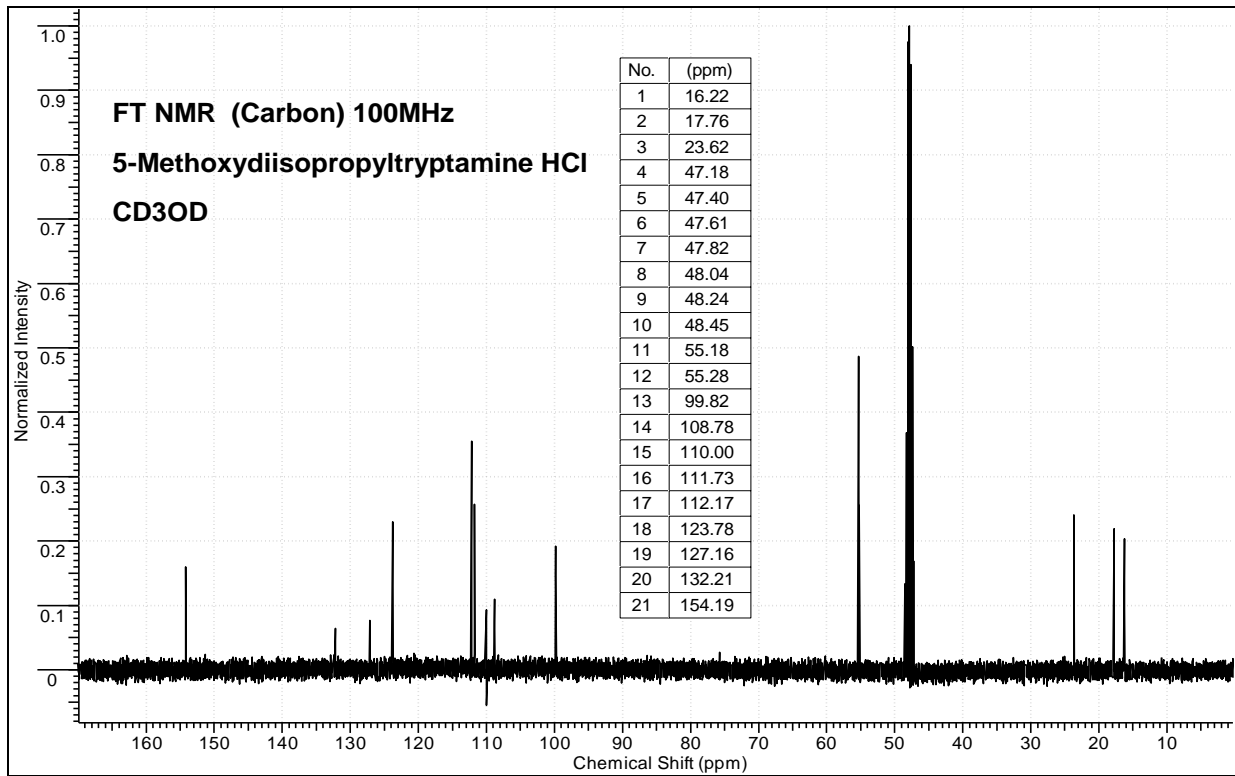
Hallucinogens: A Forensic Drug Handbook, R.R. Laing and J. A. Siegel, Eds, Academic Press, New York, 2003

8. ADDITIONAL RESOURCES

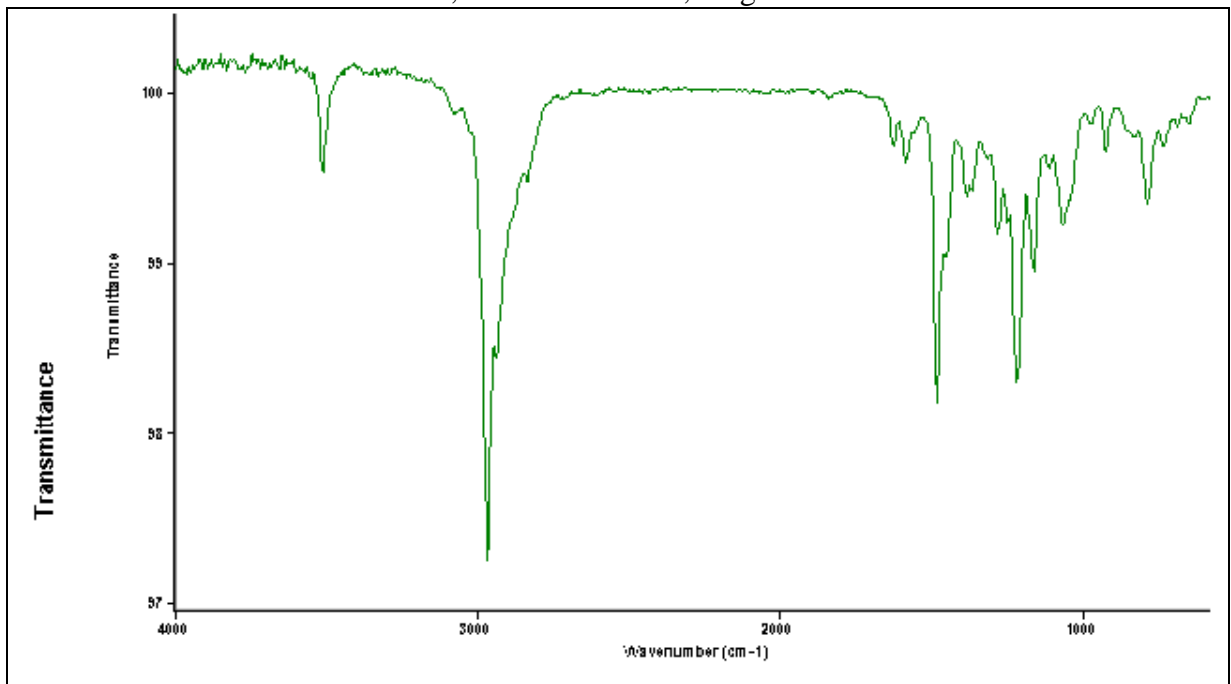
[Wikipedia](#)

Mass Spectrometry (EI): 5-Methoxydiisopropyltryptamine base in chloroform
 160°C for 1.0 min; 20°C/min to 310°C hold for 2 min.; 30 M HP-5 MS; Split ratio 100:1





FT RAMAN 5-MeODIPT HCl
 64 Scans, 8 cm⁻¹ resolution, range 3700-410



IR (Vapor Phase): 5-MeODIPT
1.5 scans/s, 8cm^{-1} resolution, range 4000-550

