

# LABORATORY SERVICES BUREAU

Document: Controlled Substances Analysis Manual

Policy Number:  
1553

Revision:  
6

Subject: CS-SOP-52 Tryptamines

Approved:  
Bell, Erica

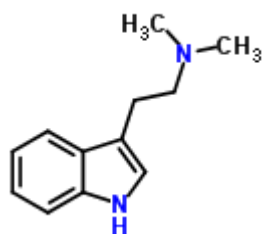
PHOENIX POLICE DEPARTMENT Effective: 7/15/2024 3:02:27 PM

Page 1 of 3

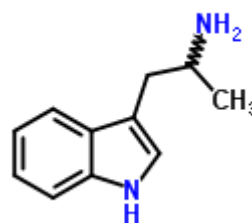
## 1. TRYPTAMINES

A. Tryptamine (3-(2-aminoethyl)indole) is a monoamine compound that is widespread in nature. Substitutions to the tryptamine molecule give rise to a group of compounds collectively known as tryptamines.

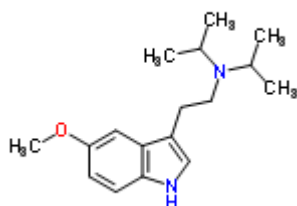
B. Structure, Empirical Formula, Molecular Weight



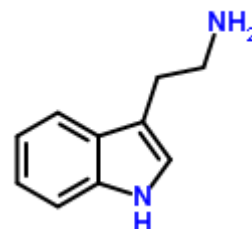
Dimethyltryptamine (DMT)  
 $C_{12}H_{16}N_2$   
MW 188.2



$\alpha$ -methyltryptamine (AMT)  
 $C_{11}H_{14}N_2$   
MW 174.2



5-methoxy-N,N-diisopropyltryptamine (5-MeO-DIPT)  
 $C_{17}H_{26}N_2O$   
MW 274.4



Tryptamine  
 $C_{10}H_{12}N_2$   
MW 160.2

C. Synonyms: *N,N*-dimethyltryptamine, tryptamine, DMT, DiPT, diisopropyltryptamine, 5-MeO-DMT (5-methoxy-dimethyltryptamine), 5-methoxy-diisopropyltryptamine, 5-MeO-DiPT, foxy methoxy, or just foxy, 5-methoxy- $\alpha$ -methyltryptamine (5-MeO-AMT)

D. Trade Names: Indopan (AMT)

E. Drug Action: CNS Hallucinogen, Stimulant

F. Common pharmaceutical/street forms: white solid, gelatin, tablets.

G. Solubility

(1) Salt : Water (DMT, Tryptamine), Alcohol (all)

(2) Base:  $CHCl_3$  (5MeO AMT, 5 MeO DIPT, 5-MeO DMT, DMT), Ether (5MeOAMT, 5 MeO DIPT, 5-MeO DMT, DMT)

LABORATORY SERVICES BUREAU		
Document: <b>Controlled Substances Analysis Manual</b>	Policy Number: 1553	Revision: 6
Subject: <b>CS-SOP-52 Tryptamines</b>	Approved: Bell, Erica	
PHOENIX POLICE DEPARTMENT	Effective: 7/15/2024 3:02:27 PM	Page 2 of 3

H. Extraction: Dry Extraction

- (1) Dissolve in C15 methanol
- (2) Filter to remove any insoluble material if necessary

I. Extraction for bark/leaves

- (1) Place approximately 0.5 grams of ground bark or 0.5 grams of ground leaves in a beaker or centrifuge tube
- (2) Add 8mL of 0.1N HCl
- (3) Sonicate for 1 hour
- (4) Centrifuge for 5 minutes and decant the liquid to a beaker
- (5) Add 10% NaOH until pH is 12 or greater
- (6) Extract with 10mL of hexane twice
- (7) Evaporate hexane and place sample in C15 methanol

J. Chemical Indicator tests: Marquis:

- (1) purple-brown (5MeODMT, 5MeOAMT)
- (2) dull orange (DMT)
- (3) purple-orange (5MeODIPT)
- (4) yellow-orange(tryptamine)

K. TLC: NA

L. GC/MS: Analyze using "DRUGS1" program

M. Comments: Abused for their hallucinogenic properties

## LABORATORY SERVICES BUREAU

Document: **Controlled Substances Analysis Manual**

Policy Number:  
1553

Revision:  
6

Subject: **CS-SOP-52 Tryptamines**

Approved:  
Bell, Erica

PHOENIX POLICE DEPARTMENT      Effective: 7/15/2024 3:02:27 PM

Page 3 of 3

- N. Reporting: Arizona controls some tryptamines by name and some by class (N-methyltryptamine mimetic substance). Refer to ARS 13-3401 for the most current listing of N-methyltryptamine mimetic substances. Report as:

- (1) “\_\_\_\_\_”, a dangerous drug
- (2) N-methyltryptamine mimetic substance “\_\_\_\_\_”, a dangerous drug
- (3) N-methyltryptamine mimetic substance indicated “\_\_\_\_\_”, a dangerous drug

**Note:**

- (a) Some compounds are exempted from the N-methyltryptamine mimetic definition e.g. melatonin, serotonin.

- O. References:

- (1) Isolation and Identification of Drugs, E.G.C. Clarke
- (2) Drug Enforcement Administration, Office of Diversion Control, Controlled Substances in Schedule I: [http://www.deadiversion.usdoj.gov/schedules/listby\\_sched/sched1.htm](http://www.deadiversion.usdoj.gov/schedules/listby_sched/sched1.htm)