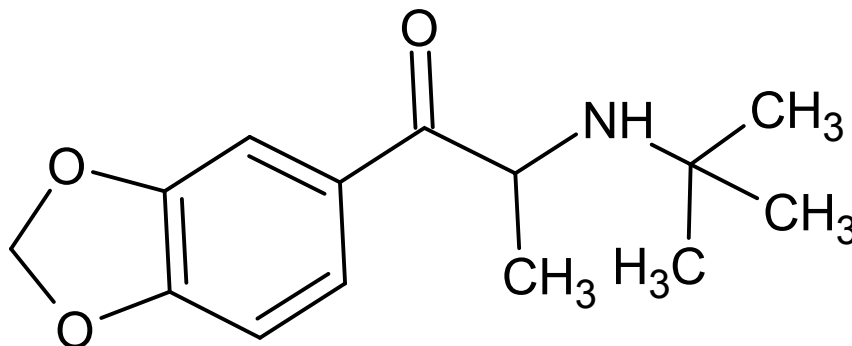




## N-tert-butyl-3,4-methylenedioxcathinone

The Drug Enforcement Administration's Special Testing and Research Laboratory generated this monograph using structurally confirmed reference material.



### 1. GENERAL INFORMATION

**IUPAC Name:** 1-(2*H*-1,3-benzodioxol-5-yl)-2-(*tert*-butylamino)propan-1-one

**CAS#:** Not Available

**Synonyms:** MDPT, tBuONE

**Source:** DEA Reference Material Collection

**Appearance:** White powder (HCl)

**UV<sub>max</sub>(nm):** Not Determined

### 2. CHEMICAL AND PHYSICAL DATA

#### 2.1 CHEMICAL DATA

Form	Chemical Formula	Molecular Weight	Melting Point (°C)
Base	C <sub>14</sub> H <sub>19</sub> NO <sub>3</sub>	249	Not Determined
HCl	C <sub>14</sub> H <sub>19</sub> NO <sub>3</sub> · HCl	286	Not Determined



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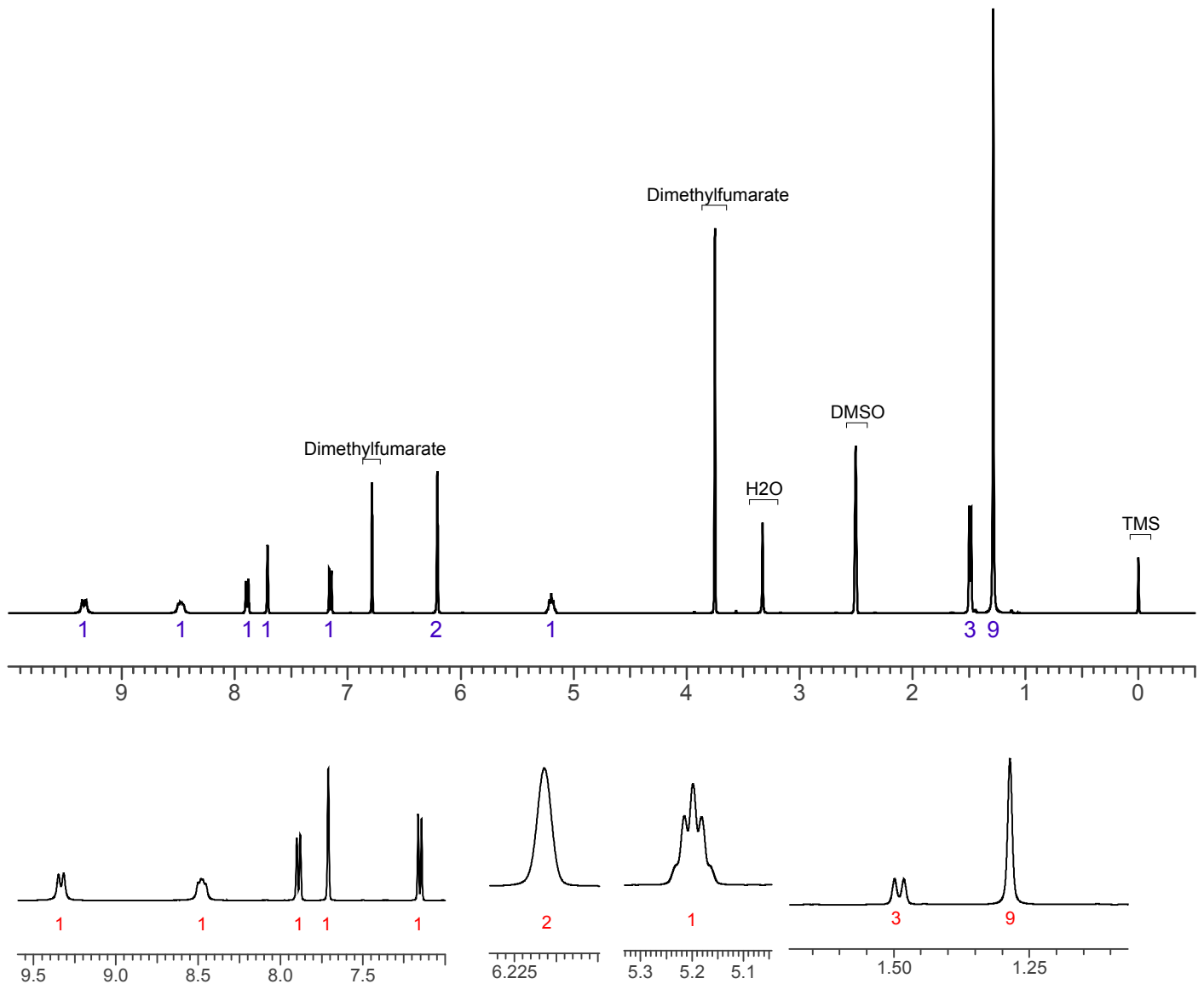
## 3. QUALITATIVE DATA

### 3.1 NUCLEAR MAGNETIC RESONANCE

**Sample Preparation:** Dilute analyte to ~10 mg/mL in DMSO containing TMS for 0 ppm reference and dimethylfumarate as quantitative internal standard.

**Instrument:** 400 MHz NMR spectrometer  
**Parameters:** Spectral width: at least containing -3 ppm through 13 ppm  
Pulse angle: 90°  
Delay between pulses: 45 seconds

<sup>1</sup>H NMR: N-tert-butyl-3,4-methylenedioxcathinone HCl Lot RM-160115-01; DMSO; 400 MHz









1 WHUW EXW\O

PHWK\OHQHGLR[\FDWKLQRQH

*The Drug Enforcement Administration's Special Testing and Research Laboratory  
this monograph using structurally confirmed interference*

#### **4. ADDITIONAL RESOURCES**

No resources identified as of 04/2016.