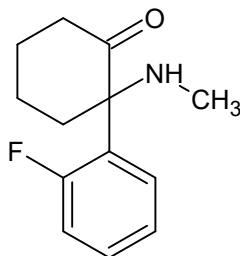




## 2-Fluoro Deschloroketamine

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



### 1. GENERAL INFORMATION

<b>IUPAC Name:</b>	2-(2-fluorophenyl)-2-(methylamino)cyclohexan-1-one
<b>CAS#:</b>	111982-49-1
<b>Synonyms:</b>	2-FDCK
<b>Source:</b>	DEA Reference Material Collection
<b>Appearance:</b>	White powder
<b>UV<sub>max</sub>(nm):</b>	Not determined

### 2. CHEMICAL AND PHYSICAL DATA

#### 2.1 CHEMICAL DATA

Form	Chemical Formula	Molecular Weight	Melting Point (°C)
Base	C <sub>13</sub> H <sub>16</sub> FNO	221.27	Not Determined
HCl	C <sub>13</sub> H <sub>16</sub> FNO HCl	257.73	Not Determined



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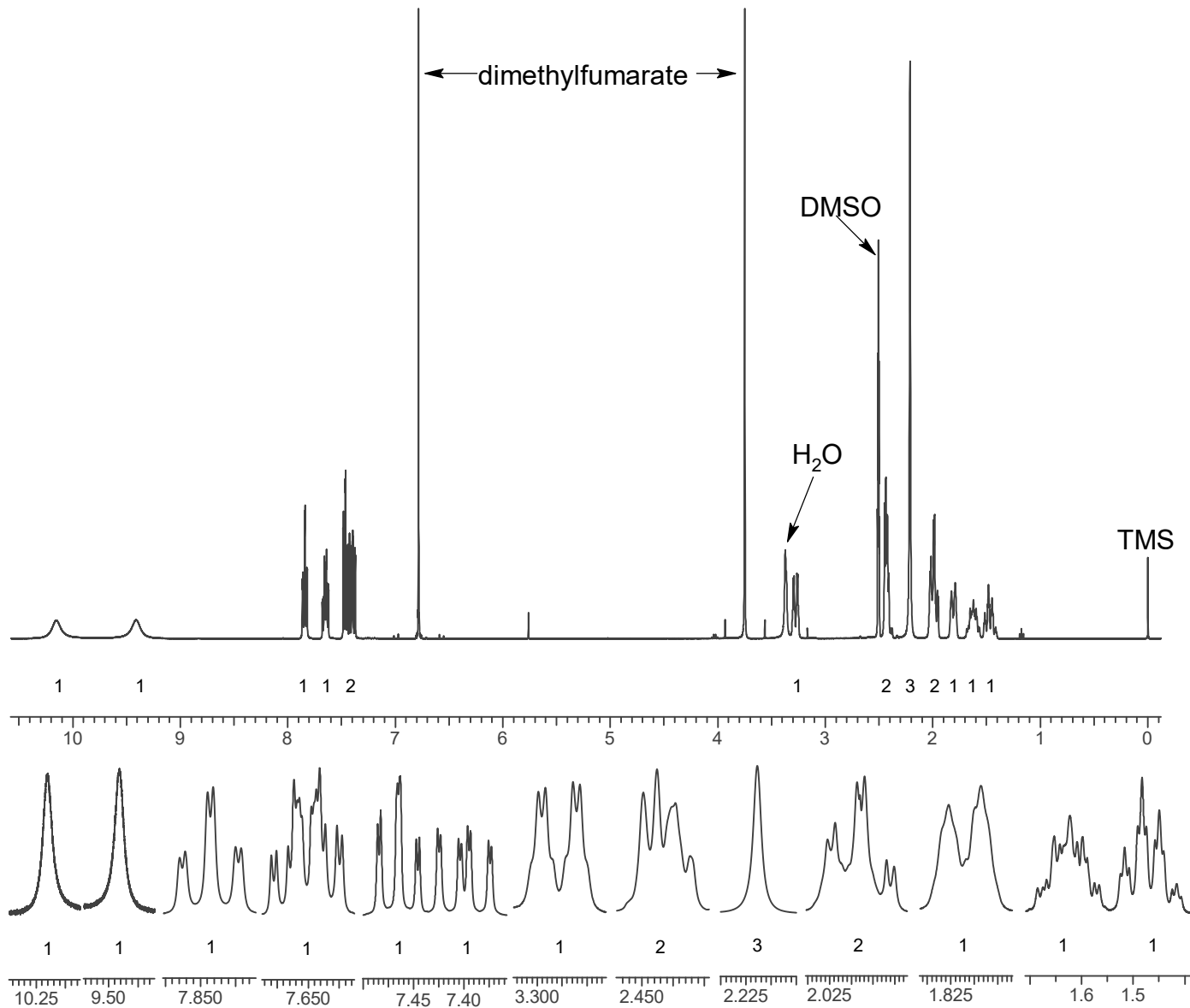
### 3. QUALITATIVE DATA

#### 3.1 NUCLEAR MAGNETIC RESONANCE

**Sample Preparation:** Dilute analyte to ~11.4 mg/mL in DMSO- $d_6$  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

$^1\text{H}$ NMR: 2-Fluoro Deschloroketamine HCl; Lot # 0504940-15; DMSO- $d_6$ ; 400MHz







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### 3.3 INFRARED SPECTROSCOPY (FTIR)

**Instrument:** FTIR with diamond ATR attachment (1 bounce)

**Scan Parameters:**  
Number of scans: 32  
Number of background scans: 32  
Resolution: 4 cm<sup>-1</sup>  
Sample gain: 1  
Aperture: 150

FTIR ATR (Diamond 1 Bounce): 2-Fluoro Deschloroketamine HCl; Lot # 0504940-15

