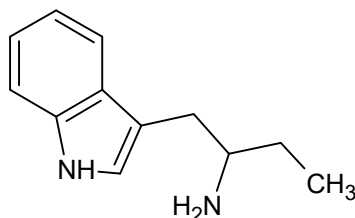




α -Ethyltryptamine

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



1. GENERAL INFORMATION

IUPAC Name:	1-(1 <i>H</i> -indol-3-yl)butan-2-amine
CAS#:	2235-90-7
Synonyms:	<i>alpha</i> -Ethyltryptamine, α -ET, 3-Indolybutylamine, NSC 88061, Ro 3-1932
Source:	DEA Reference Material Collection
Appearance:	White Powder
$UV_{max}(nm)$:	Not determined

2. CHEMICAL AND PHYSICAL DATA

2.1 CHEMICAL DATA

Form	Chemical Formula	Molecular Weight	Melting Point (°C)
Base	C ₁₂ H ₁₆ N ₂	188	100.5
HCl	C ₁₂ H ₁₆ N ₂ HCl	225	Not Determined



a-Ethyltryptamine

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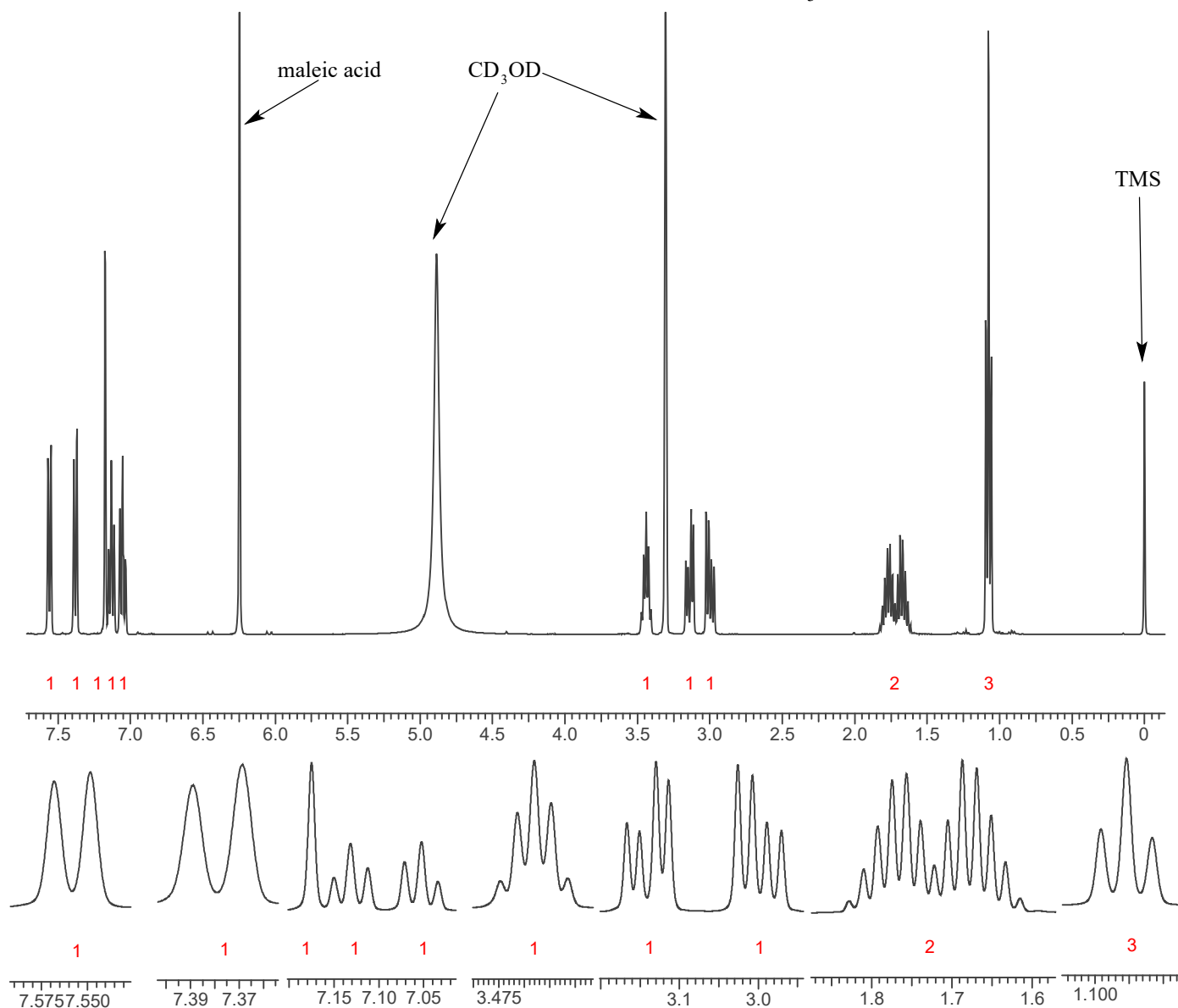
3. QUALITATIVE DATA

3.1 NUCLEAR MAGNETIC RESONANCE

Sample Preparation: Dilute analyte to ~5 mg/mL in CD₃OD containing TMS for 0 ppm reference and maleic acid 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

¹HNMR: α-Ethyltryptamine; Lot# 0448839-14; CD₃OD; 400MHz





α -Ethyltryptamine

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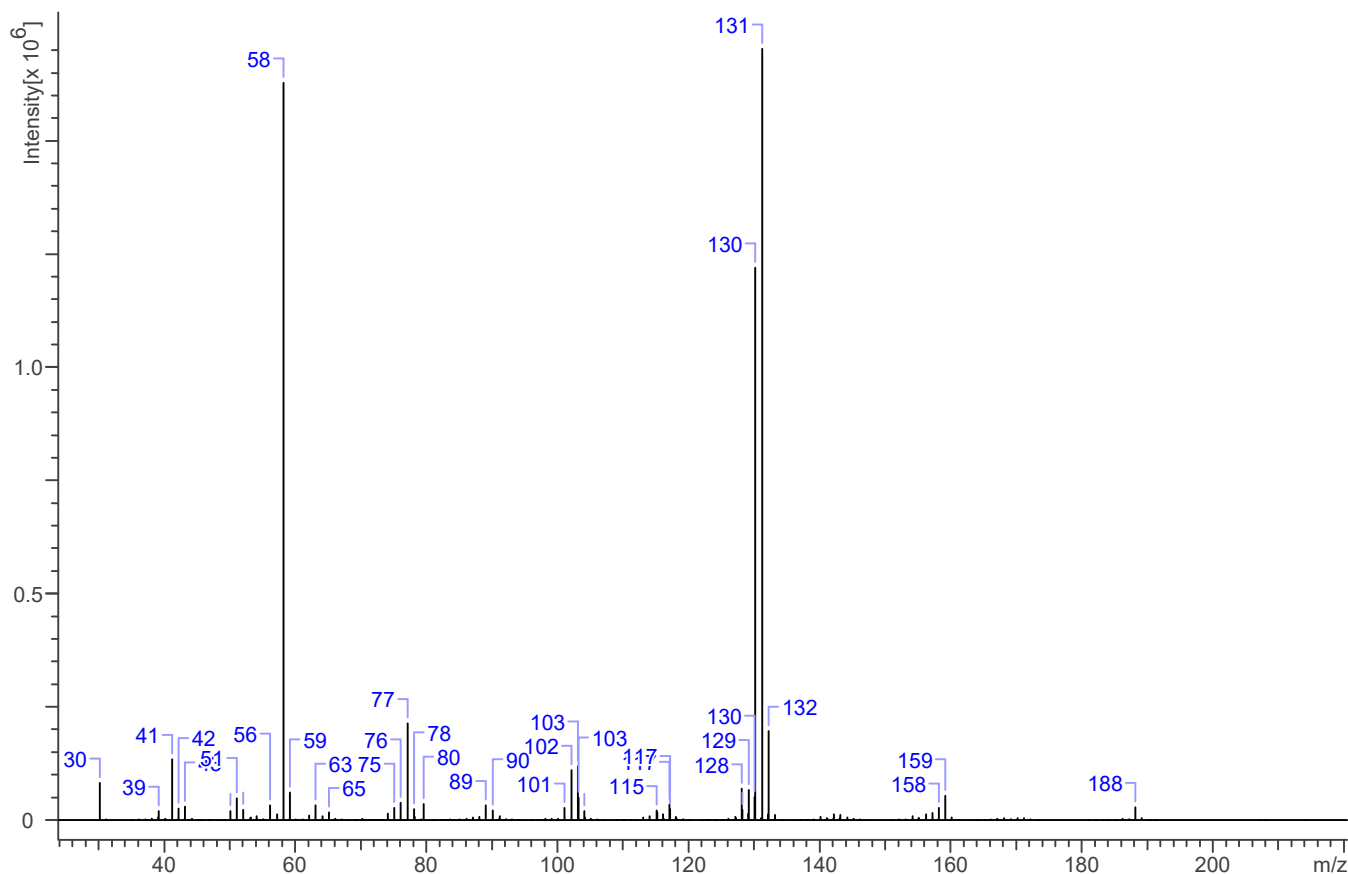


3.2 GAS CHROMATOGRAPHY/MASS SPECTROMETRY

Sample Preparation: Dilute analyte ~ 3 mg/mL in CHCl_3

Instrument: Agilent gas chromatograph operated in split mode with MS detector
Column: DB-5 MS (or equivalent); 15m x 0.25 mm x 0.25 μm
Carrier Gas: Helium at 1.5 mL/min
Temperatures: Injector: 280°C MSD transfer line: 280°C
MS Source: 250°C MS Quad: 150°C
Oven program:
 1) 90°C initial temperature for 1.0 min
 2) Ramp to 315°C at 30 °C/min
 3) Hold final temperature for 6.0 min
Injection Parameters: Split Ratio = 25:1, 1 μL injected
MS Parameters: Mass scan range: 30-550 amu Threshold: 150
Tune file: stune.u Acquisition mode: scan
Retention Time: 5.18 min

EI Mass Spectrum: α -Ethyltryptamine; Lot# 0448839-14





α -Ethyltryptamine

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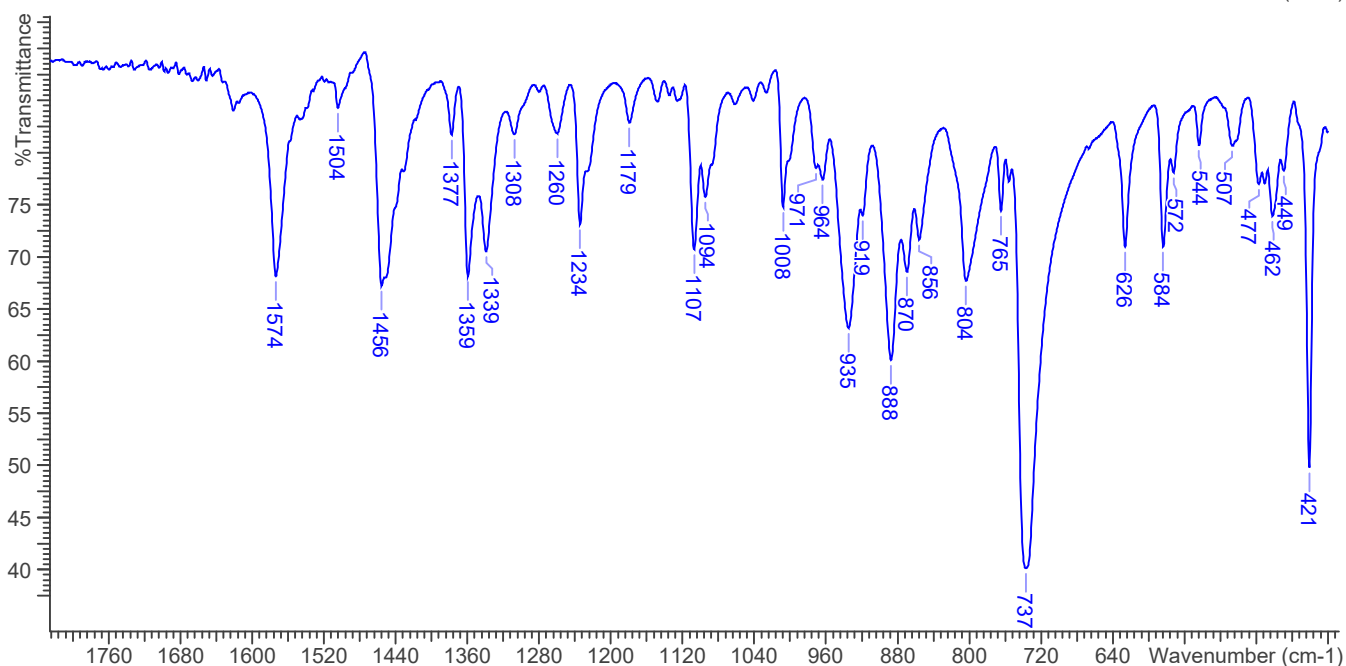
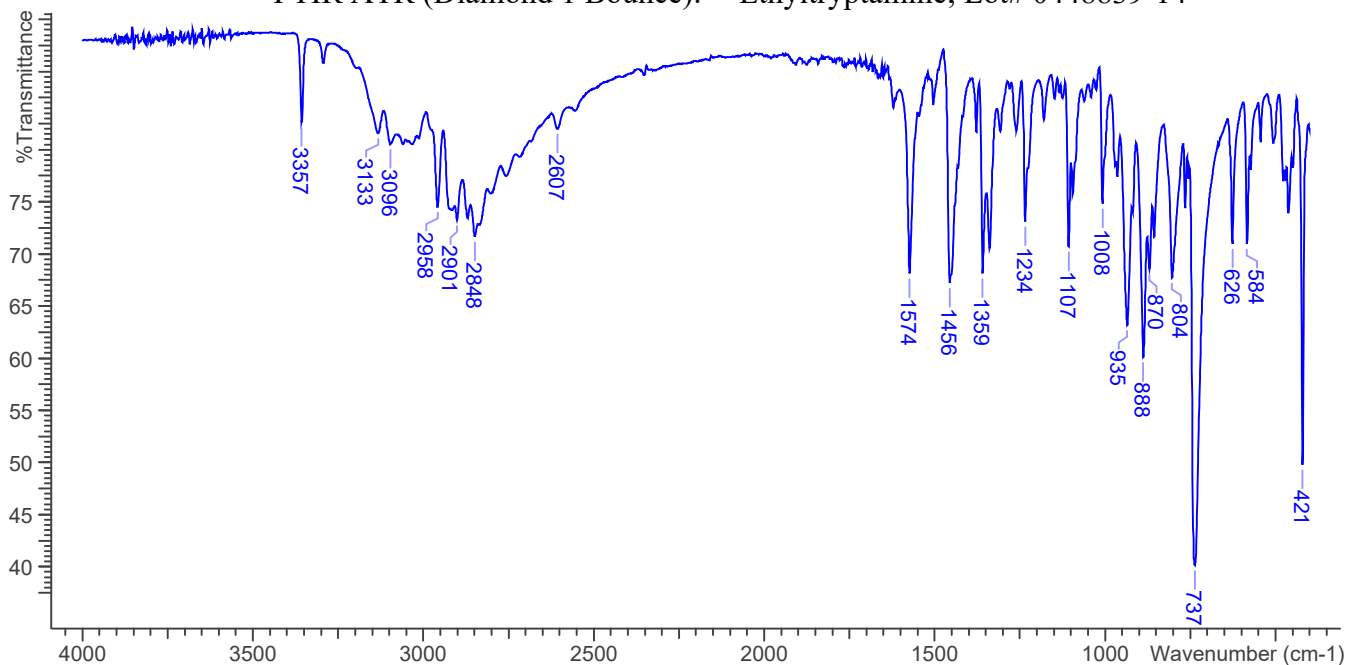


3.3 INFRARED SPECTROSCOPY (FTIR)

Instrument: FTIR with diamond ATR attachment (1 bounce)

Scan Parameters:
Number of scans: 32
Number of background scans: 32
Resolution: 4 cm^{-1}
Sample gain: 1
Aperture: 150

FTIR ATR (Diamond 1 Bounce): α -Ethyltryptamine; Lot# 0448839-14





a-Ethyltryptamine

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4. ADDITIONAL RESOURCES

[*Wikipedia*](#)

[*Forendex*](#)