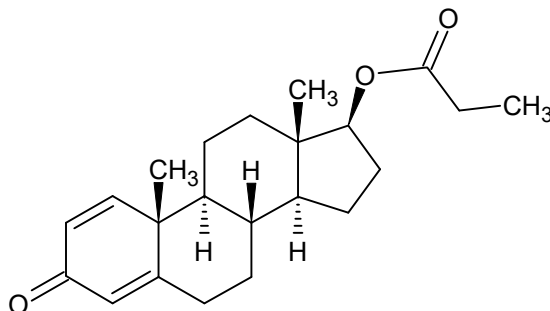




Boldenone Propionate

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



1. GENERAL INFORMATION

IUPAC Name:	17 β -hydroxyandrost-1,4-diene-3-one propionate
CAS#:	13103-34-9
Synonyms:	3-oxoandrosta-1,4-dien-17 β -yl propanoate; (17 β)-17-(1-oxopropoxy)androsta-1,4-dien-3-one; 17 β -Hydroxy-propionate-androsta-1,4-dien-3-one
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)
Neutral	C ₂₂ H ₃₀ O ₃	342.47	Not Determined



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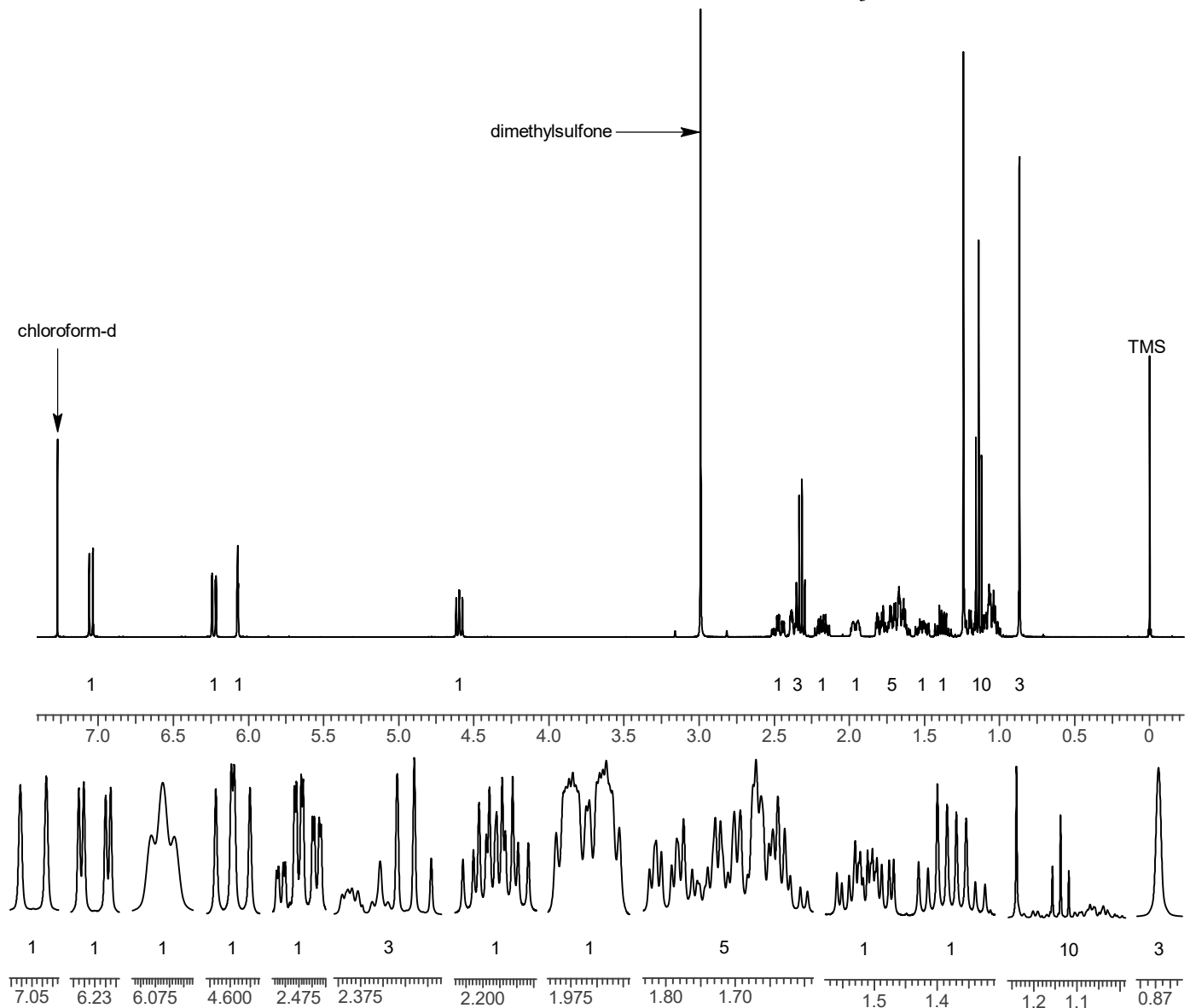
3. QUALITATIVE DATA

3.1 NUCLEAR MAGNETIC RESONANCE

Sample Preparation: Dilute analyte to ~10 mg/mL in CDCl₃ containing TMS for 0 ppm reference and dimethylsulfone 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: Boldenone Propionate; Lot# 3-SKR-31-2; CDCl₃; 400MHz





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3.2 GAS CHROMATOGRAPHY/MASS SPECTROMETRY

Sample Preparation: Dilute analyte ~4 mg/mL in CHCl₃

Instrument: Agilent gas chromatograph operated in split mode with MS detector
Column: DB-1 MS (or equivalent); 30m 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: 230°C MS Quad: 150°C
Oven program:

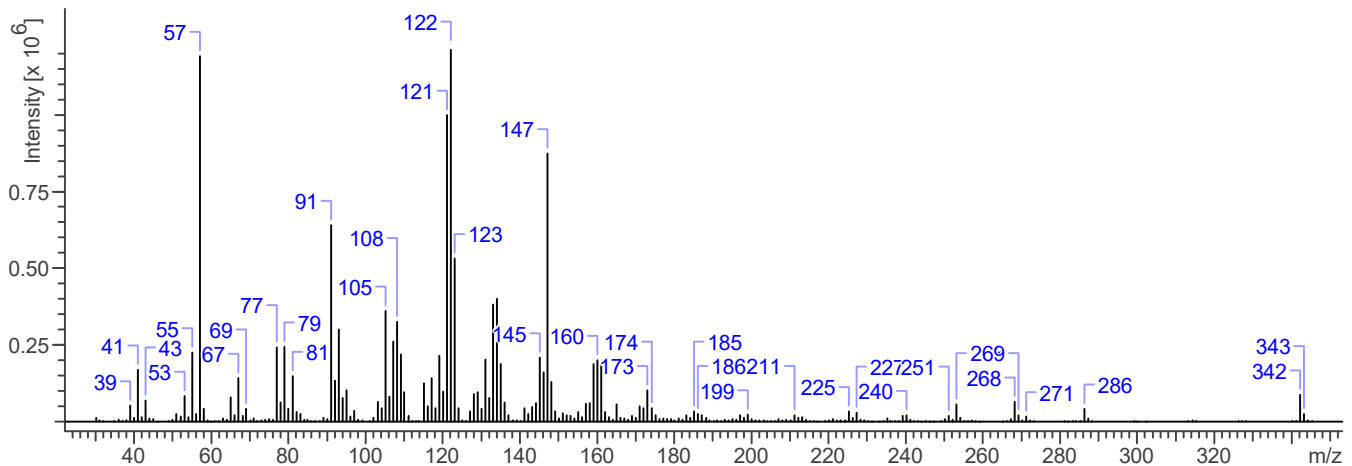
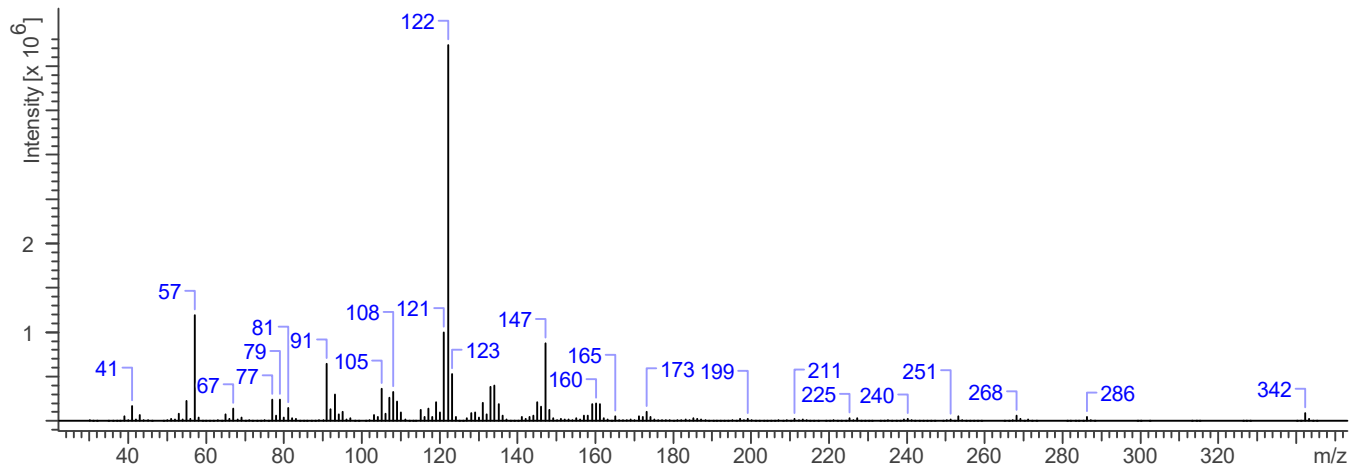
- 1) 100°C initial temperature for 1.0 min
- 2) Ramp to 280°C at 12 °C/min
- 3) Hold final temperature for 30.0 min

Injection Parameters: Split Ratio = 25:1, 1 μL injected

MS Parameters: Mass scan range: 30-550 amu Threshold: 250
Tune file: stune.u Acquisition mode: scan

Retention Time: 18.86 min

EI Mass Spectrum: Boldenone Propionate; Lot# 3-SKR-31-2





Boldenone Propionate

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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): Boldenone Propionate; Lot# 3-SKR-31-2

