

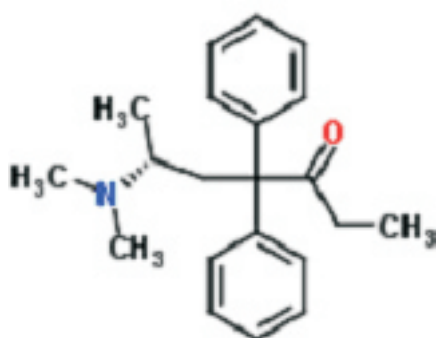
Taj Pharmaceuticals Ltd.

**Methadone [CAS 76-99-3]**

**CAS No. 4676-39-5**

Methadone hydrochloride  
powder, ≥98% (TLC)

Molecular Structure of I-Methadone (CAS NO. 125-58-6):



**IUPAC name: (1S,2S)-2-(dimethylamino)-4,4-diphenylheptan-3-one**

**Molecular Formula: C<sub>21</sub>H<sub>27</sub>NO**

Molecular Weight: 309.445180 g/mol

XLogP3: 3.9

H-Bond Donor: 0

H-Bond Acceptor: 2

Molar Refractivity: 95.91 cm<sup>3</sup>

Molar Volume: 306.4 cm<sup>3</sup>

Surface Tension: 37.1 dyne/cm

Density: 1.009 g/cm<sup>3</sup>

Flash Point: 126.5 °C

Enthalpy of Vaporization: 67.8 kJ/mol

Boiling Point: 423.7 °C at 760 mmHg

Vapour Pressure: 2.2E-07 mmHg at 25 °C

Water Solubility: 48.48 mg/L at 25 °C

**BRN of I-Methadone (CAS NO. 125-58-6): 3213668**

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**Methadone [CAS 76-99-3]**

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**Product Name:**

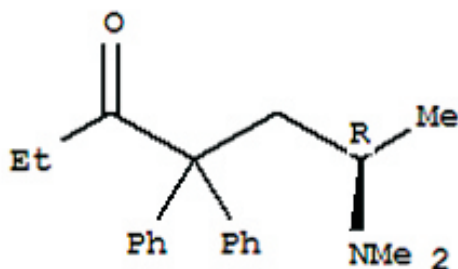
I-Methadone

CAS No:125-58-6

Formula:C<sub>21</sub>H<sub>27</sub> N O

Molecular Structure:

Molecular-Structure



Synonyms:3-Heptanone,6-(dimethylamino)-4,4-diphenyl-, (R)-; 3-Heptanone,6-(dimethylamino)-4,4-diphenyl-, L- (8CI); (-)-Methadone; (6R)-Methadone;(R)-Methadone; D-(-)-Methadone; Levomethadone; Levothyl; Polamivet;R-(-)-Methadone; I-Methadone; I-Polamivet

Description

Biochem/physiol Actions

μ opioid receptor agonist that desensitizes both the μ opioid receptor and the δ opioid receptor on chronic exposure; narcotic analgesic, characterized by a gradual onset of action and prolonged, milder withdrawal; may also block L-type calcium channels independently of its effects on opioid receptors.

**Properties**

Assay ≥98% (TLC)

Form: powder

Drug control: Schedule II; Manufactured from Taj Pharmaceuticals Limited, India

Color: white to off-white

solubility: H<sub>2</sub>O: >50 mg/mL, clear, colorless to yellow

**Packing: 5kg, 20kg, 25 kg, & 50kg Bags.**

**Sample: Available 10 gm, 50 gm & 100 gm packing exclusively.**

**100% -Export quality.**

