Drug Status Report

Drug: 2b-Carbomethoxy-3b-(3,4-dichlorophenyl)tropane

Drug Name Status: 2b-Carbomethoxy-3b-(3,4-dichlorophenyl)tropane is the common name

Other Names: Dichloropane

Chemical Name: 1R-(exo,exo)-3-(3,4-dichlorophenyl)-8-azabicyclo(3.2.1)octane-2-carboxylic acid methyl ester

Chemical structure:

![Chemical structure diagram]

Molecular Formula: C_{16}H_{16}Cl_{2}NO_{2}

Pharmacological class / Application: imaging aid

International status:

US: The substance is not currently listed on the US Controlled Substances Act and is not mentioned on the DEA website.

United Nations: The substance is not listed on the Yellow List - List of Narcotic Drugs under International Control nor the Green List - List of Psychotropic Substances under International Control.

Canadian Status: 2b-Carbomethoxy-3b-(3,4-dichlorophenyl)tropane is not currently listed on the schedules to the CDSA. It has a tropane base structure as does cocaine but it is not a coca related substance. Similar substances have been previously reviewed, including NC 100697 and several others in the status report titled, “Tropane related substances” which is appended for information.

Recommendation: 2b-Carbomethoxy-3b-(3,4-dichlorophenyl)tropane is not included in the schedules to the CDSA and is not a controlled substance.

June 25, 2008
Drug Status Report

**Drug**: Tropane related substances

2b-Carbomethoxy-3b-(4-fluorophenyl)-N-allyl nortropane (I)
2b-Carbomethoxy-3b-(4-fluorophenyl)-N-(3-iodo-E-allyl) nortropane (II)
2b-Carbomethoxy-3b-(4-fluorophenyl)-N-(3-tributyltin-E-allyl) nortropane (III)

**Drug Name Status**: The above names are common names.

**Chemical Name**: (I) 3-(4-Fluorophenyl)-8-[2-propenyl]-8-azabicyclo[3.2.1]octane-2-carboxylic acid methyl ester
(II) 3-(4-Fluorophenyl)-8-[(2E)-3-(iodo-2-propenyl)]-8-azabicyclo[3.2.1]octane-2-carboxylic acid methyl ester
(III) 3-(4-Fluorophenyl)-8-[(2E)-3-(tributyltin-2-propenyl)]-8-azabicyclo[3.2.1]octane-2-carboxylic acid methyl ester

**Chemical structure**:

![Chemical structure](image)

**Molecular Formula**: (I) $C_{18}H_{22}FNO_2$
(II) \( \text{C}_{18}\text{H}_{21}\text{FNO}_2 \)
(III) \( \text{C}_{3}\text{H}_{54}\text{FNO}_2\text{Sn} \)

**Pharmacological class / Application:** dopamine transporter ligand

**International status:**

US: The chemicals are not currently listed on the US Controlled Substances Act and are not mentioned on the DEA website.

United Nations: The chemicals are not listed on the Yellow List - List of Narcotic Drugs under International Control nor on the Green List - List of Psychotropic Substances under International Control.

Canadian Status: The chemicals are currently not listed specifically on the CDSA. The chemicals have been referred to as cocaine analogues probably because they share a tropane core structure with cocaine. The structures of tropane and ecgonine, the root structure of coca alkaloids, are shown below.

![Tropane](image1.png)
![Ecgonine](image2.png)

Item I (2) of the Schedule to the CDSA is: “Coca (Erythroxylon), its preparations, derivatives, alkaloids and salts, including:
I.2.(1) Coca leaves
I.2.(2) Cocaine (Benzoylmethylecgonine)
I.2.(3) Ecgonine (3-Hydroxy-2-tropane carboxylic acid)”.

The substances I, II and III are not derivatives of ecgonine.
A decision was made in May, 2003 that other similar substances in this class were also not controlled substances.

**Recommendation:** Based on the information available, substances I, II and III are not included in the schedules to the CDSA and are not controlled substances.

January 17, 2006