

Drug Status Report

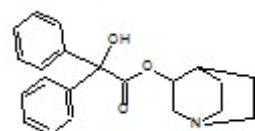
Drug: 3-Quinuclidinyl benzilate (I)

Drug Name Status: 3-Quinuclidinyl benzilate is the common name.

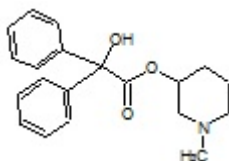
Other Names: BZ; agent buzz; 1-azabicyclo[2.2.2]oct-3-yl a-hydroxy-a-phenylbenzeneacetate

Chemical Name: alpha-Hydroxy-alpha-phenyl-benzeneacetic acid, 1-azabicyclo(2.2.2)oct-3-yl ester

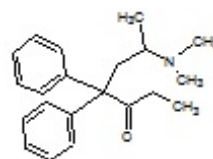
Chemical structure:



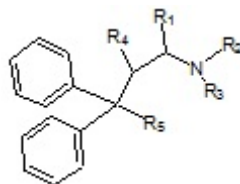
I



LBJ



Methadone



Amidone root structure

Molecular Formula: $C_{21}H_{23}NO_3$

Pharmacological class / Application: cholinergic agent

International status:

US: The substance is not listed on the schedules to the US Controlled Substances Act.

United Nations: The substance is 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: 3-Quinuclidinyl benzilate is structurally similar to N-methyl-3-piperidyl benzilate (LBJ), structure above, which is item 8 of Schedule III to the CDSA; item 8 is extended by only the salts of LBJ. 3-Quinuclidinyl benzilate is not a salt of LBJ.

3-Quinuclidinyl benzilate is also structurally related to the amidones (item 5 of Schedule I) of

which methadone, structure above, is a member. As the term “amidone” has no definitive meaning in chemistry, the substances listed in item 5 can provide guidance on the types of substances included in the item. All amidones listed in item 5 have structures that can be represented by the amidone root structure above. R_1 and R_4 may be H or CH_3 ; R_2 and R_3 may be CH_3 or a six membered ring; R_5 may be an unsaturated carbon. 3-Quinuclidinyl benzilate does not contain the essential structural elements of the amidones.

Recommendation: 3-Quinuclidinyl benzilate is not included in the schedules to the CDSA and is not a controlled substance.

September 4, 2009