Drug Status Report

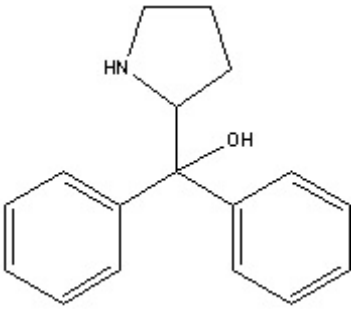
Drug: 2-(Diphenylhydroxymethyl)pyrrolidine

Drug Name Status: 2-(Diphenylhydroxymethyl)pyrrolidine is the common name.

Chemical Name: Diphenyl-2-pyrrolidinemethanol

Other Names: Diphenylprolinol; D2PM

Chemical structure:



Molecular Formula: $C_{17}H_{19}NO$

Pharmacological class / Application: Fine Chemical

International status:

US: The substance is not listed on the schedules to the CSA 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. The drug is not listed on the Green List - List of Psychotropic Substances under International Control.

Canadian Status: 2-(Diphenylhydroxymethyl)pyrrolidine is a chiral amine and is a commonly encountered in medicinal chemistry as an intermediate or final product in enantioselective synthesis reactions[1]. The substance is structurally similar to pipradrol but is not included under item 7 of Schedule IV to the CDSA as it is not a salt of pipradrol.

The recreational use of 2-(diphenylhydroxymethyl)pyrrolidine has been reported in the scientific literature and both enantiomers of the substance is believed to display activity at the cocaine binding

[1]Kraml, CM. *et al*. (2005) Enhanced chromatographic resolution of amine enantiomers as carbobenzyloxy derivatives in high-performance liquid chromatography and supercritical fluid chromatography, J. Chromatogr. A. 1100:108-115.

site on the dopamine transporter protein[2]. However, the substance cannot be included in any of the Schedules to the CDSA.

Recommendation: 2-(Diphenylhydroxymethyl)pyrrolidine is not included in the schedules to the CDSA and is not considered a controlled substance.

May 25th 2010

[2]Lidder, S. *et al.* (2008) Cardiovascular toxicity associated with recreational use of diphenylprolinol (diphenyl-2-pyrrolidinemethanol (D2PM), J. Med. Toxicol. Off. J. Am. Coll. Med. Toxicol. **4**:167-169.