

1-[3-(Trifluoro-methyl)-phenyl]piperazine

(Street Names: "TFMPP" or "Molly". Often found in combination with BZP: "A2", "Legal E" or "Legal X")

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Introduction:

1-[3-(Trifluoro-methyl)-phenyl]piperazine (TFMPP) is an industrial chemical. It is often abused in combination with benzylpiperazine (BZP), a schedule I controlled substance. The Drug Enforcement Administration (DEA) temporarily controlled TFMPP in 2002 as a schedule I hallucinogen under the Controlled Substances Act (CSA) because of its abuse potential and lack of accepted medical use or safety. However, based on the scientific and medical evaluation conducted by the Food and Drug Administration (FDA) and the National Institute on Drug Abuse (NIDA), the Department of Health and Human Services (DHHS) did not recommend control of TFMPP. Accordingly, TFMPP was no longer controlled under the CSA after March 18, 2004. Recently, there has been an escalation in the abuse of TFMPP in the United States as evidenced by the increasing encounters of this substance by law enforcement officials in various states and the District of Columbia.

Licit Uses:

TFMPP is used as an intermediate in chemical synthesis. It has no known medical use in the United States.

Chemistry and Pharmacology:

TFMPP is an N-monosubstituted piperazine derivative available as either base or the hydrochloride salt. The base form is a slightly viscous yellowish liquid. hydrochloride salt is a white solid. TFMPP base is an irritant.

Some pharmacological effects of TFMPP include rate-depressant effects, prevention of isolation-induced behavioral deficit, anxiolytic (high doses), anti-aggressive effects, locomotor inhibition, hyperthermia, respiratory depression, interference with circadian system, and hypophagia.

Experimental evidence suggests that TFMPP has some 3,4-methylenedioxymethamphetamine (MDMA)-like In rats, TFMPP generalizes (a effects in animals. maximum response of 77%) to the stimulus cue of MDMA. TFMPP also produces anxiety-like responses, alters thermoregulation, and has weak effects on the cardiovascular system. Like MDMA, TFMPP is a serotonin releasing agent.

Self-reported information indicates that TFMPP causes hallucinations in man. Some abusers describe TFMPP as a mild hallucinogen and report feeling mild, pleasant and mellow after ingesting TFMPP. In addition, some abusers stated that BZP enhances the effects of TFMPP.

Illicit Uses:

TFMPP is being promoted as a legal alternative to MDMA at raves (all-night dance parties) as TFMPP or "Molly" and is often sold in combination with BZP as "ecstasy", or "A2", "legal E" or "legal X" in order to enhance its spectrum of effects. TFMPP may be abused alone for its hallucinogenic effects. TFMPP is generally administered orally as either powder, tablets or capsules. Other routes of administration include smoking and snorting.

User Population:

Youth and young adults are the main abusers of TFMPP.

Illicit Distribution:

The National Forensic Laboratory Information System (NFLIS) is a DEA database that collects scientifically verified data on drug items and cases submitted to and analyzed by state and local forensic laboratories. The System to Retrieve Information from Drug Evidence (STRIDE) provides information on drug seizures reported to and analyzed by DEA laboratories. Federal, state and local forensic laboratories identified 202 substances as TFMPP in 2007 and 3,072 substances in 2010. In the first quarter of 2011, 394 substances were identified as TFMPP.

Control Status:

TFMPP is currently not controlled under the CSA. TFMPP was temporarily placed into schedule I of the CSA on September 20, 2002 (67 FR 59161). On March 18, 2004, the DEA published a Final Rule (69 FR 12794) in the Federal Register reverting TFMPP to non-control status.

Georgia and Louisiana have enacted legislation to control TFMPP.

Comments and additional information are welcomed by the Drug and Chemical Evaluation Section, Fax 202-353-1263, Telephone 202-307-7183, or Email ODE@usdoj.gov