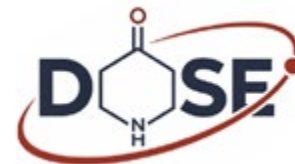




# DEA Overdose Surveillance Exchange (DOSE)



June 2026  
DEA-SFL1-DOSE-26-003

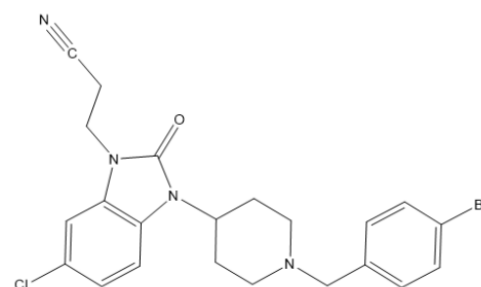


## New Substance Public Alert N-Propionitrile 5-Chloro Desmethylbromphine

### BACKGROUND

An unknown material was submitted to the DEA Special Testing and Research Laboratory through the Unknown Identification Support program. The sample consisted of approximately 275 round, green tablets marked K|8. The sample was purchased in Dallas, Texas in May 2026 and was suspected to contain fentanyl.

This is the first time N-propionitrile 5-chloro desmethylbromphine has been identified by DEA and it has not been previously reported in the National Forensic Laboratory Information System (NFLIS).



Chemical Structure of N-propionitrile 5-chloro desmethylbromphine

### CHEMICAL INFORMATION

**Chemical Name:** 3-(3-(1-(4-bromobenzyl)piperidin-4-yl)-6-chloro-2-oxo-2,3-dihydro-1H-benzo[d]imidazole-1-yl)propanenitrile

**Molecular Formula:** C<sub>22</sub>H<sub>22</sub>BrClN<sub>4</sub>O

**Molecular Weight:** 473.799 g/mol

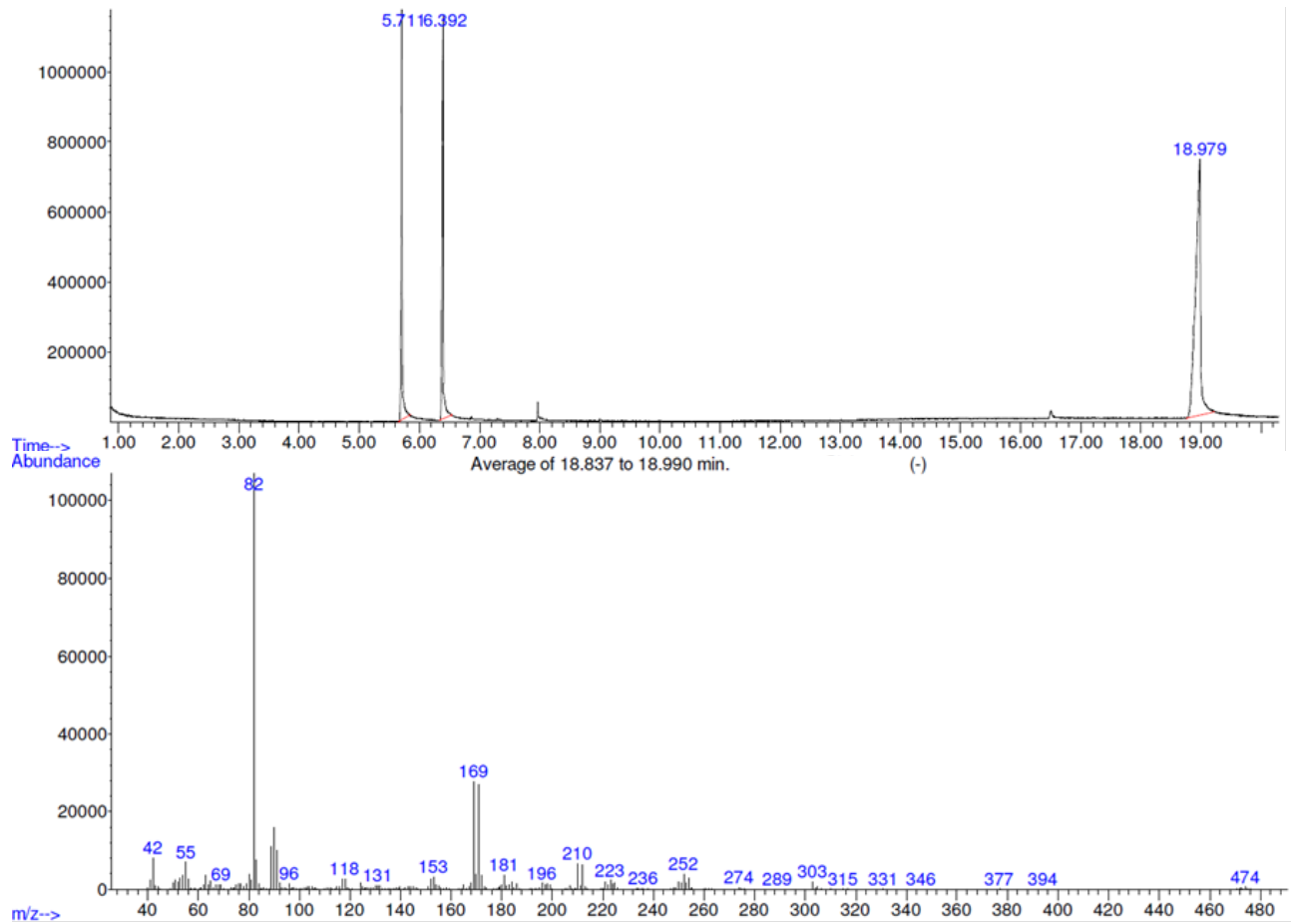
**Exact Mass:** 472.066 g/mol

**CAS RN:** None

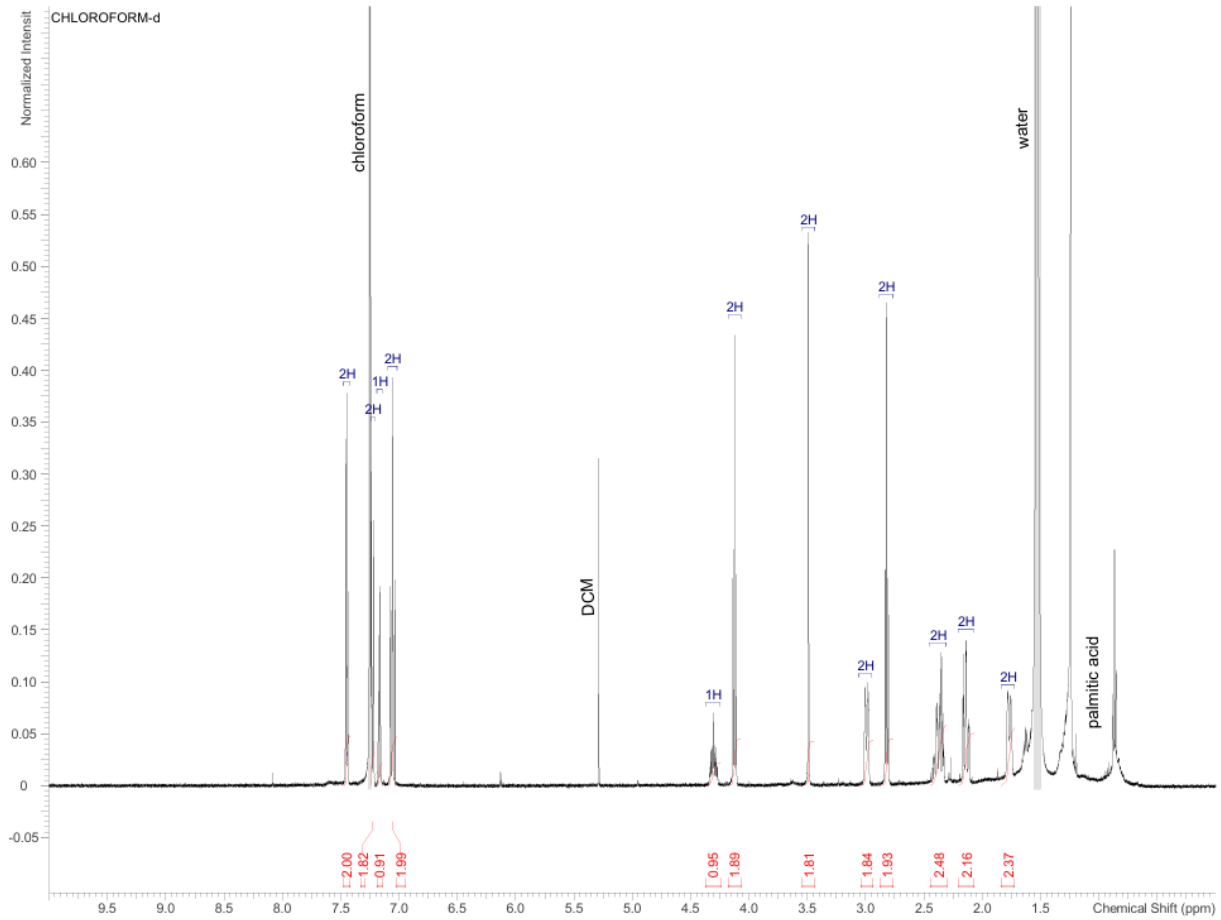
**Reference Material:** Not commercially available

### ANALYTICAL DATA

The below analytical data was collected from seized material.

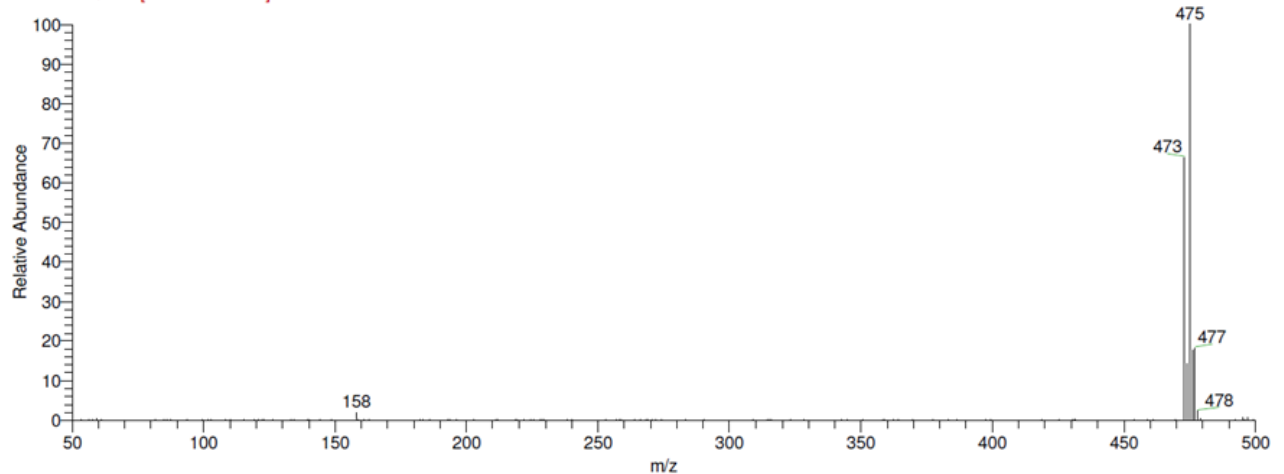


GC-EI-MS data for N-propionitrile 5-chloro desmethylbromphine (GUARDS)



<sup>1</sup>H NMR spectrum of N-propionitrile 5-chloro desmethylbromphine

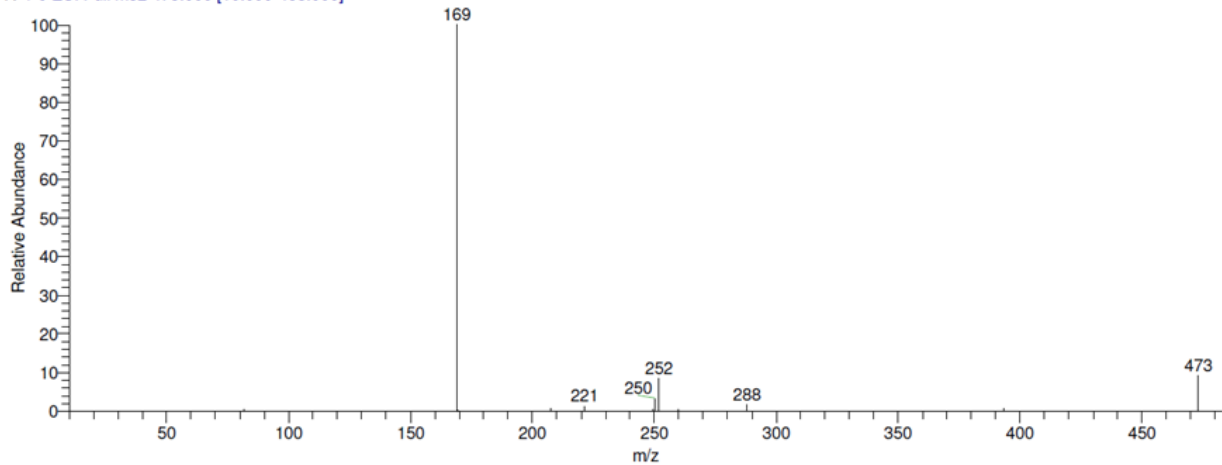
BP-82-6-05-26\_MSMS\_35V #464-471 RT: 3.49-3.53 AV: 4 SB: 7 3.40-3.49 NL: 3.13E6  
F: + c ESI Q3MS [50,000-500,000]



ESI-MS data for N-propionitrile 5-chloro desmethylbromphine



BP-82-6-05-26\_MSMS\_35V #463-472 RT: 3.48-3.54 AV: 5 NL: 5.45E4  
T: + c ESI Full ms2 473.000 [10.000-483.000]



ESI-MS/MS data for N-propionitrile 5-chloro desmethylbromphine

## RECOMMENDED CITATION

Drug Enforcement Administration. DEA Overdose Surveillance Exchange (DOSE): New Substance Public Alert – N-Propionitrile 5-Chloro Desmethylbromphine. Dulles, Virginia: US. Special Testing and Research Laboratory, DEA; 2026, June 22.



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about DOSE.