

Main NPS Opioid Subclasses



FENTANYLS 2013 - PRESENT

Fentanyl
3-Methylfentanyl
Carfentanil
Butyrylfentanyl
Cyclopropylfentanyl
Isobutyrylfentanyl
Fluoro-Isobutyrylfentanyl
Methoxyacetylfentanyl
O-methyl fentanyl
P-Fluorofentanyl
Others (~65) ...

All controlled either by name
or through core structure
scheduling.

NITAZENES 2019 TO PRESENT

Isotonitazene Metonitazene
Butonitazene
Protonitazene
Flunitazene
Etodesnitazene
N-Pyrrolidino
protonitazene
N-Pyrrolidino metonitazene
N-Pyrrolidino etonitazene
N-desethyl isotonitazene
Others (~4)...

Most currently controlled in
the US permanently or
temporarily by name

ORPHINES 2025 - PRESENT

Brorphine
Chlorphine
N-Propionitrile Chlorphine
5,6-Dicholoro
Desmethylchlorphine
Spirochlorphine
Spirobrorphine
5,6-dicholoro Brorphine
(others evolving rapidly)

Only Brorphine currently
scheduled in the United
States

Others are not scheduled

Novel Synthetic Opioids

Phenylpiperidines (fentanyl, fluorofentanyl)

Benzimidazoles/Nitazenes (isotonitazene, etonitazene)

Orphines (bromorphine, chlorphine)

Benzamides (U-47700, U-51754, AH-7921, U-49900)

Acetamides (U-50488, U-51754)

Piperazines (MT-45)

Cinnamylpiperazines (AP-238, 2-methyl AP 237)

Emergence of NPS Opioids in the U.S. from NPS Discovery

