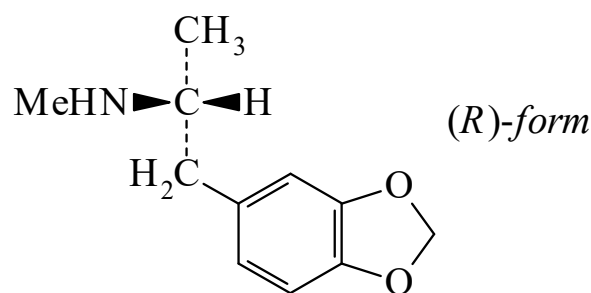




>>Entry Name: *N*, α -Dimethyl-3,4-(methylenedioxy)phenethylamine

Synonym(s): *N*, α -Dimethyl-1,3-benzodioxole-5-ethanamine, 9CI. 3,4-Methylenedioxyethylamphetamine. MDMA. Ecstasy. XTC. EA 1475



CAS Registry Number: 42542-10-9

Related CAS Registry Numbers(s): 64057-70-1

Type of Compound Code(s): XA6070 XA4637

Molecular Formula: C₁₁H₁₅NO₂

Molecular Weight: 193.245

Accurate Mass: 193.110279

Percentage Composition: C 68.37%; H 7.82%; N 7.25%; O 16.56%

Use/Importance: Induces release and inhibits reuptake of 5-hydroxytryptamine. Inhibits MAO_A-mediated catabolism of 5-HT. Psychomimetic. Drug of abuse

Hazard & Toxicity: Neurotoxic. Acute exp. effects incl. hyperthermia and behavioural changes. Longer-term exp. administration causes degeneration of 5-HT and dopamine neurones in the brain. Hepatotoxic

>>Variant: (*R*)-form

CAS Registry Number: 81262-70-6

Molecular Formula: C₁₁H₁₅NO₂

Molecular Weight: 193.245

Accurate Mass: 193.110279

Percentage Composition: C 68.37%; H 7.82%; N 7.25%; O 16.56%

>>Derivative: Hydrochloride

CAS Registry Number: 69558-31-2

Physical Description: Cryst.

Melting Point: Mp 192-193°

Optical Rotation: [α]_D -17.54 (c, 1 in H₂O)

>>Variant: (*S*)-form

CAS Registry Number: 66142-89-0

Molecular Formula: C₁₁H₁₅NO₂

Molecular Weight: 193.245

Accurate Mass: 193.110279

Percentage Composition: C 68.37%; H 7.82%; N 7.25%; O 16.56%

Other Data: Pharmacol. active isomer

>>Derivative: Hydrochloride

CAS Registry Number: 69558-32-3

Physical Description: Cryst.

Melting Point: Mp 192-193°

Optical Rotation: [α]_D +17.43 (c, 1 in H₂O)

>>Variant: ($\pm$)-form

CAS Registry Number: 69610-10-2

Molecular Formula: C₁₁H₁₅NO₂

Molecular Weight: 193.245

Accurate Mass: 193.110279

Percentage Composition: C 68.37%; H 7.82%; N 7.25%; O 16.56%

Boiling Point: Bp_{0.4} 100-110°