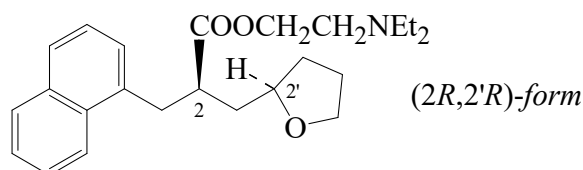




>>Entry Name: Naftidrofuryl, BAN, INN

Synonym(s): 2-(Diethylamino)ethyl tetrahydro- α -(1-naphthalenylmethyl)-2-furanpropanoate, 9Cl. 2-(Diethylamino)ethyl 2-[(1-naphthyl)methyl]-3-(2-tetrahydrofuryl)propanoate. Nafronyl



CAS Registry Number: 31329-57-4

Related CAS Registry Numbers(s): 86258-34-6 86258-35-7

Molecular Formula: C₂₄H₃₃NO₃

Molecular Weight: 383.53

Accurate Mass: 383.246044

Percentage Composition: C 75.16%; H 8.67%; N 3.65%; O 12.51%

Use/Importance: 5-HT₂ receptor antagonist. Prevents serotonin-induced vasoconstriction (vasodilator). Used in the treatment of peripheral and cerebral vascular disorders

Development Status: Intravenous form withdrawn in UK (1995)

Hazard & Toxicity: Adverse cardiac and other effects reported when used therapeutically

>>Variant: (2*R*,2'*R*)-form

CAS Registry Number: 139240-18-9

Molecular Formula: C₂₄H₃₃NO₃

Molecular Weight: 383.53

Accurate Mass: 383.246044

Percentage Composition: C 75.16%; H 8.67%; N 3.65%; O 12.51%

Optical Rotation: $[\alpha]_D +35.22$ (c, 4.15 in MeOH)

>>Derivative: Oxalate

CAS Registry Number: 139240-25-8

Physical Description: Cryst. (EtOAc)

Melting Point: Mp 88-90°

Optical Rotation: $[\alpha]_D^{21} +32$ (c, 4.98 in MeOH)

>>Variant: (2*R*,2'*S*)-form

CAS Registry Number: 139240-16-7

Molecular Formula: C₂₄H₃₃NO₃

Molecular Weight: 383.53

Accurate Mass: 383.246044

Percentage Composition: C 75.16%; H 8.67%; N 3.65%; O 12.51%

Optical Rotation: $[\alpha]_D +73.34$ (c, 4.17 in MeOH)

>>Derivative: Oxalate

CAS Registry Number: 139240-24-7

Physical Description: Cryst. (EtOAc)

Melting Point: Mp 95-97°

Optical Rotation: $[\alpha]_D^{21} +77.7$ (c, 4.96 in MeOH)

>>Variant: (2*S*,2'*R*)-form

CAS Registry Number: 139240-17-8

Molecular Formula: C₂₄H₃₃NO₃

Molecular Weight: 383.53

Accurate Mass: 383.246044

Percentage Composition: C 75.16%; H 8.67%; N 3.65%; O 12.51%

Optical Rotation: $[\alpha]_D^{21} -72.89$ (c, 4.61 in MeOH)

Other Data: The props. of this and the (2*R*,2'*S*)-isomer may be inverted since the chiral centres are not labelled in the paper and it is not clear which is which

>>Derivative: Oxalate

CAS Registry Number: 139270-29-4

Physical Description: Cryst. (EtOAc)

Melting Point: Mp 95-97°

Optical Rotation: $[\alpha]$