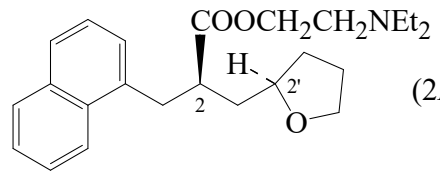
>>**Entry Name: Naftidrofuryl,** BAN, INN

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



(2*R*,2'*R*)-*form*

CAS Registry Number: 31329-57-4
Related CAS Registry Numbers(s): 86258-34-6 86258-35-7

Molecular Formula: $C_{24}H_{33}NO_3$
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-HT_2 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Development Status: Intravenous form withdrawn in UK (1995)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: $C_{24}H_{33}NO_3$
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: $C_{24}H_{33}NO_3$
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: $C_{24}H_{33}NO_3$
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: [α]