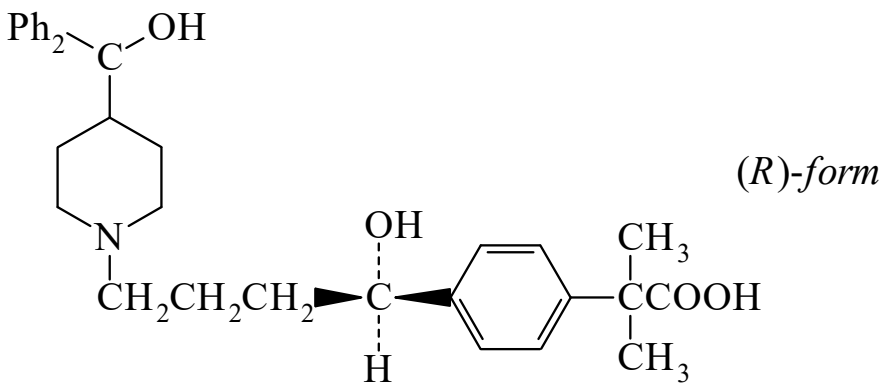
>>**Entry Name: Fexofenadine,** BAN, INN

Synonym(s): 4-[1-Hydroxy-4-[4-(hydroxydiphenylmethyl)-1-piperidinyl]butyl]-α,α-dimethylbenzeneacetic acid, 9CI. Carboxyterfenadine. Allegra. Telfast. MDL 16455



(*R*)-*form*

CAS Registry Number: 83799-24-0
Related CAS Registry Numbers(s): 138452-21-8 154477-53-9 154477-58-4

Molecular Formula: $C_{32}H_{39}NO_4$
Molecular Weight: 501.664
Accurate Mass: 501.287909
Percentage Composition: C 76.62%; H 7.84%; N 2.79%; O 12.76%
Biological Use/Importance: Histamine H_1-receptor antagonist. Used in the treatment of allergic rhinitis
Development Status: Marketed drug. Launched 1996. Worldwide 38th best selling prescription drug ($1.08 bn) (Aventis) (2000, Pharma Business)
Other Data: Active metab. of Terfenadine FLZ09-D

>>**Variant:** (*R*)-form

CAS Registry Number: 139965-10-9
Molecular Formula: $C_{32}H_{39}NO_4$
Molecular Weight: 501.664
Accurate Mass: 501.287909
Percentage Composition: C 76.62%; H 7.84%; N 2.79%; O 12.76%
Physical Description: Cryst. (MeOH/EtOAc)
Melting Point: Mp 213-215°

>>**Variant:** (*S*)-form

CAS Registry Number: 139965-11-0
Molecular Formula: $C_{32}H_{39}NO_4$
Molecular Weight: 501.664
Accurate Mass: 501.287909
Percentage Composition: C 76.62%; H 7.84%; N 2.79%; O 12.76%
Physical Description: Cryst. (MeOH/EtOAc)
Melting Point: Mp 213-215°

>>**Variant:** (±)-form

CAS Registry Number: 159389-12-5
Molecular Formula: $C_{32}H_{39}NO_4$
Molecular Weight: 501.664
Accurate Mass: 501.287909
Percentage Composition: C 76.62%; H 7.84%; N 2.79%; O 12.76%
Physical Description: Cryst. (MeOH)
Melting Point: Mp 142-143°

>>**Derivative:** Hydrochloride
Synonym(s): Fexofenadine hydrochloride, USAN

CAS Registry Number: 153439-40-8

>>**Derivative:** Me ester

CAS Registry Number: 154825-96-4
Molecular Formula: $C_{33}H_{41}NO_4$
Molecular Weight: 515.691
Accurate Mass: 515.303559
Percentage Composition: C 76.86%; H 8.01%; N 2.72%; O 12.41%
Physical Description: Solid