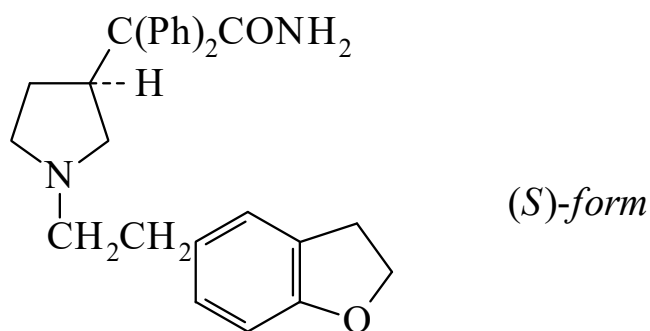




>>Entry Name: **Darifenacin**, BAN, INN

Synonym(s): 1-[2-(2,3-Dihydro-5-benzofuranyl)ethyl]- α,α -diphenyl-3-pyrrolidineacetamide, 9CI



Related CAS Registry Numbers(s): 133099-05-5

Molecular Formula: $C_{28}H_{30}N_2O_2$

Molecular Weight: 426.557

Accurate Mass: 426.230728

Percentage Composition: C 78.84%; H 7.09%; N 6.57%; O 7.50%

Use/Importance: Muscarinic receptor antagonist. Used for irritable bowel syndrome

Calculated Log P Data: Log P 3.66 (calc)

>>Variant: (S)-form

CAS Registry Number: 133099-04-4

Molecular Formula: $C_{28}H_{30}N_2O_2$

Molecular Weight: 426.557

Accurate Mass: 426.230728

Percentage Composition: C 78.84%; H 7.09%; N 6.57%; O 7.50%

>>Derivative: Hydrobromide

CAS Registry Number: 133099-07-7

Physical Description: Solid

Melting Point: Mp 229°

Optical Rotation: $[\alpha]_D^{25} -30.3$ (c, 1.0 in CH_2Cl_2)

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

CAS Registry Number: 133033-93-9

Molecular Formula: $C_{28}H_{30}N_2O_2$

Molecular Weight: 426.557

Accurate Mass: 426.230728

Percentage Composition: C 78.84%; H 7.09%; N 6.57%; O 7.50%

Physical Description: Powder (diisopropyl ether)

Melting Point: Mp 131-132°

References:

Eur. Pat., 1990, *Pfizer*, 388 054; *CA*, **114**, 247125u, (*synth, pharmacol*)