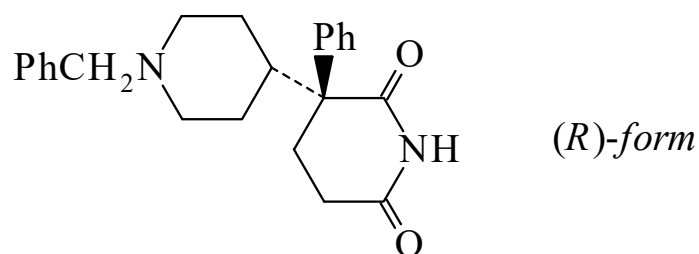




>>Entry Name: Benzetimide, INN

Synonym(s): 3-Phenyl-1'-(phenylmethyl)-[3,4'-bipiperidine]-2,6-dione, 9Cl. 1-Benzyl-4-(2,6-dioxo-3-phenyl-3-piperidyl)piperidine



CAS Registry Number: 14051-33-3

Related CAS Registry Numbers(s): 119391-55-8

Molecular Formula: $C_{23}H_{26}N_2O_2$

Molecular Weight: 362.471

Accurate Mass: 362.199428

Percentage Composition: C 76.21%; H 7.23%; N 7.73%; O 8.83%

Biological Use/Importance: Anticholinergic and antiparkinsonian agent

Calculated Log P Data: Log P 3.43 (calc)

>>Variant: (*R*)-form

Synonym(s): Levetimide

CAS Registry Number: 21888-99-3

Molecular Formula: $C_{23}H_{26}N_2O_2$

Molecular Weight: 362.471

Accurate Mass: 362.199428

Percentage Composition: C 76.21%; H 7.23%; N 7.73%; O 8.83%

Melting Point: Mp 180.5-182°

Optical Rotation: $[\alpha]_D^{20} -124$ (CHCl₃)

Hazard & Toxicity: LD₅₀ (mus, ivn) 38.5 mg/kg

>>Variant: (*S*)-form

Synonym(s): Dexetimide, BAN, INN, USAN. Dexbenzetimide. Serenone. Tremblex. Trembley. R 16470

CAS Registry Number: 21888-98-2

Molecular Formula: $C_{23}H_{26}N_2O_2$

Molecular Weight: 362.471

Accurate Mass: 362.199428

Percentage Composition: C 76.21%; H 7.23%; N 7.73%; O 8.83%

Melting Point: Mp 181-183°

Optical Rotation: $[\alpha]_D^{20} +125$ (CHCl₃)

Other Data: Pharmacol. active enantiomer

>>Derivative: Hydrochloride

CAS Registry Number: 5633-14-7

Melting Point: Mp 270-275°

Optical Rotation: $[\alpha]_D^{20} +125$ (MeOH)

Hazard & Toxicity: LD₅₀ (mus, orl) 680 mg/kg

Sigma: B7670

>>Variant: (±)-form

Molecular Formula: $C_{23}H_{26}N_2O_2$

Molecular Weight: 362.471

Accurate Mass: 362.199428

Percentage Composition: C 76.21%; H 7.23%; N 7.73%; O 8.83%

Melting Point: Mp 156-159°

>>Derivative: Hydrochloride

Synonym(s): Benzetimide hydrochloride, USAN. Dioxatrine. Spasmentral. McN JR4929-11. R 4929

Melting Point: Mp 229-231.5°. Mp 299-301.5°