



>>Entry Name: Dimevamide, INN

Synonym(s): α -[2-(Dimethylamino)propyl]- α -phenylbenzeneacetamide, 9Cl. 4-(Dimethylamino)-2,2-diphenylvaleramide, 8Cl. Centrine. Aminopentamide. Pentamyl. Valeramide-OM. BL 139

CAS Registry Number: 60-46-8

Type of Compound Code(s): XA2250

$\text{Me}_2\text{NCH}(\text{CH}_3)\text{CH}_2\text{CPh}_2\text{CONH}_2$

Molecular Formula: $\text{C}_{19}\text{H}_{24}\text{N}_2\text{O}$

Molecular Weight: 296.411

Accurate Mass: 296.188863

Percentage Composition: C 76.99%; H 8.16%; N 9.45%; O 5.40%

Use/Importance: Anticholinergic, antispasmodic drug; also bird and rodent repellant

Calculated Log P Data: Log P 1.7 (calc)

>>Variant: (+)-form

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Melting Point: Mp 136.5-137.5°

Optical Rotation: $[\alpha]_{\text{D}}^{23} +98.9$ (MeOH)

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Physical Description: Long prisms (EtOH aq.)

Melting Point: Mp 183-184°

Solubility: Insol. H_2O

>>Derivative: Hydrochloride

Physical Description: Leaflets (EtOH + Et_2O)

Melting Point: Mp 190-191°

Other Data: Sl. deliquescent

>>Derivative: Sulfate

CAS Registry Number: 35144-63-9

Melting Point: Mp 185-187°

Solubility: Insol. Et_2O

Other Data: Deliquescent, bitter taste

References:

Beckett, A.H. *et al.*, *J.C.S.*, 1957, 3076, (*abs config*)

Moffett, R.B. *et al.*, *J.A.C.S.*, 1957, **79**, 4451, (*synth*)

Colleter, J.C. *et al.*, *Bull. Soc. Pharm. Bordeaux*, 1961, **100**, 87, (*cryst struct*)

Yusuf, S.M. *et al.*, *Arch. Int. Pharmacodyn. Ther.*, 1964, **152**, 198, (*pharmacol*)

Crabbé, P. *et al.*, *Bull. Soc. Chim. Fr.*, 1965, 2855, (*ord, uv*)

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