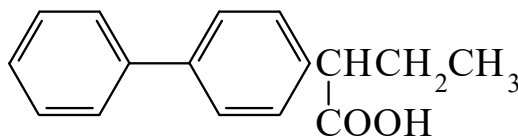




>>Entry Name: 2-(4-Biphenyl)butanoic acid

Synonym(s): α -Ethyl-[1,1'-biphenyl]-4-acetic acid, 9Cl. α -Ethyl-*p*-xenylacetic acid. **Xenbucin**, INN, USAN. Arcaterol. Liofene. Liosol. Liposana. Nosterol. Sclerovit. Solvoscleril. Xenbuficin. MG 1559



CAS Registry Number: 959-10-4

Molecular Formula: C₁₆H₁₆O₂

Molecular Weight: 240.301

Accurate Mass: 240.11503

Percentage Composition: C 79.97%; H 6.71%; O 13.32%

Use/Importance: Antihyperlipidaemic and spasmolytic agent

Calculated Log P Data: Log P 4.14 (calc)

Hazard & Toxicity: LD₅₀ (mus, ipr) 260 mg/kg

>>Variant: (±)-form

Molecular Formula: C₁₆H₁₆O₂

Molecular Weight: 240.301

Accurate Mass: 240.11503

Percentage Composition: C 79.97%; H 6.71%; O 13.32%

Physical Description: Cryst. (AcOH)

Melting Point: Mp 123-125°

>>Derivative: 2-(Dimethylamino)ethanol salt (1:1)

Synonym(s): **Namoxirate**, INN, USAN. Namol xenirate. W 1760A

CAS Registry Number: 1234-71-5

Use/Importance: Analgesic

Development Status: Never marketed

Melting Point: Mp 96-97.5°

Hazard & Toxicity: LD₅₀ (mus, ipr) 164 mg/kg

>>Derivative: *trans*-4-Phenylcyclohexylamine salt (1:1)

Synonym(s): **Butixirate**, INN, USAN. Cyclexirate. Flectar. MG 5771

CAS Registry Number: 19992-80-4

Use/Importance: Antiinflammatory and analgesic; used topically

Melting Point: Mp 224-227°

Hazard & Toxicity: LD₅₀ (mus, ipr) 76 mg/kg

References:

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Eades, C.H. *et al.*, *J. Pharmacol. Exp. Ther.*, 1966, **14**, 225, (*pharmacol*)
Dicarlo, F.J. *et al.*, *Arch. Int. Pharmacodyn. Ther.*, 1967, **167**, 206; **170**, 99, (*Namoxirate*)
Cantarelli, G. *et al.*, *Farmaco, Ed. Sci.*, 1969, **24**, 140, (*Butixirate*)
Grovenstein, E. *et al.*, *J.O.C.*, 1982, **47**, 2928, (*synth*)
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