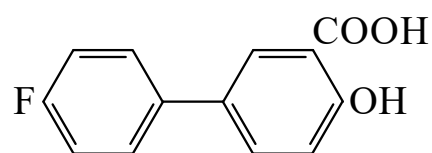




>>Entry Name: 4'-Fluoro-4-hydroxy-3-biphenylcarboxylic acid, 8CI

Synonym(s): 5-(4-Fluorophenyl)-2-hydroxybenzoic acid



CAS Registry Number: 22510-33-4

Molecular Formula: C₁₃H₉FO₃

Molecular Weight: 232.211

Accurate Mass: 232.053573

Percentage Composition: C 67.24%; H 3.91%; F 8.18%; O 20.67%

Melting Point: Mp 204-208°

>>Derivative: Et ester

Molecular Formula: C₁₅H₁₃FO₃

Molecular Weight: 260.264

Accurate Mass: 260.084873

Percentage Composition: C 69.22%; H 5.03%; F 7.30%; O 18.44%

Melting Point: Mp 89-90°

Boiling Point: Bp_{0.5} 170-175°

>>Derivative: Amide

Molecular Formula: C₁₃H₁₀FNO₂

Molecular Weight: 231.226

Accurate Mass: 231.069557

Percentage Composition: C 67.53%; H 4.36%; F 8.22%; N 6.06%; O 13.84%

Melting Point: Mp 206-207°

>>Derivative: Ac

Synonym(s): Flufenisal, INN, USAN. MK 835

CAS Registry Number: 22494-27-5

Molecular Formula: C₁₅H₁₁FO₄

Molecular Weight: 274.248

Accurate Mass: 274.064138

Percentage Composition: C 65.69%; H 4.04%; F 6.93%; O 23.34%

Use/Importance: Analgesic, antiinflammatory agent

Development Status: Never marketed

Melting Point: Mp 134-137°

Calculated Log P Data: Log P 3.06 (calc)

References:

Rowe, H. *et al.*, *J.A.C.S.*, 1947, **69**, 509, (*synth*)

Fr. Pat., 1968, *Merck*, 1 522 570; *CA*, **71**, 30241n, (*Flufenisal*)

Hannah, J. *et al.*, *J. Med. Chem.*, 1978, **21**, 1093, (*synth, uv, ir*)

Gombar, V. *et al.*, *Arzneim.-Forsch.*, 1983, **33**, 1226, (*Flufenisal*)