



Synonym(s): Clofibrate, BAN, INN, JAN, USAN. Ethyl 2-(4-chlorophenoxy)-2-methylpropanoate. Amotril. Anparton. Atromidin. Atromid S. AY 61123. ICI 28257. NSC 79389. Many other names

CAS Registry Number: 637-07-0

Molecular Formula: C₁₂H₁₅ClO₃

Molecular Weight: 242.701

Accurate Mass: 242.070972

Percentage Composition: C 59.39%; H 6.23%; Cl 14.61%; O 19.78%

Biological Use/Importance: Peroxisome proliferator activated receptor (PPAR-α) agonist. Antihyperlipidaemic agent

Physical Description: Oil

Boiling Point: Bp₂₀ 148-150°

Calculated Log P Data: Log P 3.68 (calc)

Other Data: Rapidly metabolises *in vivo* to free acid

Hazard & Toxicity: Peroxisome proliferator. Non-genotoxic rodent hepatocarcinogen. Other exp. hepatic effects

Aldrich: 28536-6

Fluka: 25895

Sigma: C6643

>>Derivative: *tert*-Butyl ester

CAS Registry Number: 124188-31-4

Molecular Formula: C₁₄H₁₉ClO₃

Molecular Weight: 270.755

Accurate Mass: 270.102272

Percentage Composition: C 62.11%; H 7.07%; Cl 13.09%; O 17.73%

Melting Point: Mp 38-39°

>>Derivative: Ester with 4-hydroxy-*N,N*-dimethylbutyramide

Synonym(s): 4-(Dimethylamino)-4-oxobutyl 2-(4-chlorophenoxy)-2-methylpropanoate, 9Cl. **Clofibrade**, INN. Competil. Evimot. Lipenan. Sinceral. MG 46

CAS Registry Number: 26717-47-5

Molecular Formula: C₁₆H₂₂ClNO₄

Molecular Weight: 327.807

Accurate Mass: 327.123736

Percentage Composition: C 58.62%; H 6.76%; Cl 10.82%; N 4.27%; O 19.52%

Biological Use/Importance: Antihyperlipidaemic agent

Melting Point: Mp 34°

Boiling Point: Bp_{0.1} 175°

Calculated Log P Data: Log P 2.18 (calc)

Other Data: Rapidly metabolises *in vivo* to free acid

>>Derivative: Etophylline ester

see Etofylline clofibrate, [BNS76-I](#)

>>Derivative: 3-Pyridylmethyl ester

see Nicofibrate, [BNT88-S](#)

>>Derivative: Amide

CAS Registry Number: 5658-61-7

Molecular Formula: C₁₀H₁₂ClNO₂

Molecular Weight: 213.663

Accurate Mass: 213.055656

Percentage Composition: C 56.21%; H 5.66%; Cl 16.59%; N 6.56%; O 14.98%

Melting Point: Mp 121°

Rare Chemicals Library: S82491-7