Certificate of Analysis

Product Name: **Clofibrate** **Catalog No.: 0824** **Batch No.: 4**

CAS Number: 637-07-0 EC Number: 211-277-4

IUPAC Name: Ethyl 2-(4-chlorophenoxy)-2-methylpropionate

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{12}H_{15}ClO_3$

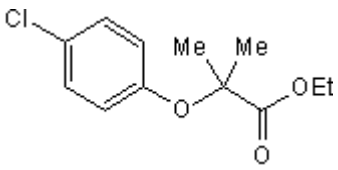
Batch Molecular Weight: 242.7017

Physical Appearance: Clear liquid

Solubility: DMSO to 100 mM

Storage: Store at RT

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.3% purity

^{1}H NMR: Consistent with structure

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IUPAC Name: Ethyl 2-(4-chlorophenoxy)-2-methylpropionate

Description:

PPAR agonist (EC_{50} values are 50, 500 and > 100 µM at PPARα, PPARγ and PPARδ respectively). Antihyperlipoproteinemic.

Physical and Chemical Properties:

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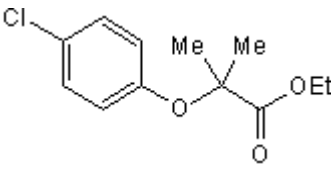
Physical Appearance: Clear liquid

Batch Molecular Structure:



Storage: Store at RT

Solubility & Usage Info:

DMSO to 100 mM

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

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Shepherd (1993) Mechanism of action of fibrates. Postgrad.Med.J. ***69*** S34. PMID: 8497455.

Willson *et al* (2000) The PPARs: from orphan receptors to drug discovery. J.Med.Chem. ***43*** 527. PMID: 10691680.

Bishop-Bailey (2000) Peroxisome proliferator-activated receptors in the cardiovascular system. Br.J.Pharmacol. ***129*** 823. PMID: 10696077.