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

2. ANALYTICAL DATA

HPLC: Shows 99.3% purity
\(^1H\) NMR: Consistent with structure
Product Name: Clofibrate

CAS Number: 637-07-0
IUPAC Name: Ethyl 2-(4-chlorophenoxy)-2-methylpropionate

**Description:**
PPAR agonist (EC₅₀ values are 50, 500 and > 100 μM at PPARα, PPARγ and PPARδ respectively). Antihyperlipoproteinemic.

**Physical and Chemical Properties:**
Batch Molecular Formula: C₁₂H₁₂ClO₃
Batch Molecular Weight: 242.7017
Physical Appearance: Clear liquid

**Batch Molecular Structure:**

![Batch Molecular Structure](image)

**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:**
Merck Index 12 2437.