

Product Data Sheet

Product Name: 1-oxo Ibuprofen

Cat. No.: GC40723

Chemical Properties

Cas. No. 65813-55-0

SMILES CC(C(O)=O)C1=CC=C(C(C(C)C)=O)C=C1

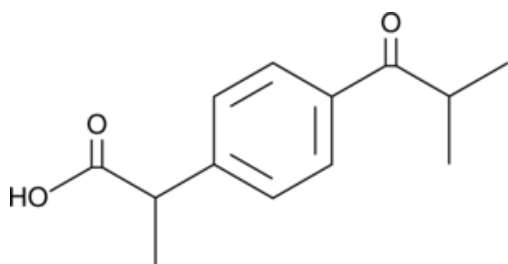
Formula C₁₃H₁₆O₃ M.Wt 220.3

Solubility Chloroform: soluble Storage Store at -20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution: ship with blue ice. All other available size: ship with RT, or blue ice upon request.

Structure



Background

1-oxo Ibuprofen is a degradation product and potential impurity in commercial preparations of ibuprofen. Ibuprofen is a non-selective, reversible COX inhibitor and non-steroidal anti-inflammatory drug (NSAID). Formulations containing ibuprofen are widely used for inflammation, pain, and fever. However, it is considered, among other pharmaceuticals, an environmental contaminant because it cannot be completely biodegraded during the wastewater treatment process. Degradation using ultraviolet light, Fe(III), and peroxymonosulfate has been described and results in degradation products, including 1-oxo ibuprofen.

Caution: Product has not been fully validated for medical applications. For research use only.

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