

Ethyl Trifluoroacetate

CAS No. 383-63-1

Ethyl trifluoroacetate is the ethyl ester of trifluoroacetic acid. It is used as an intermediate in the preparation of pharmaceutically active molecules.

Specifications

Assay by Gas Chromatography	99.9% minimum
Acidity	0.1% maximum
Fluoride	0.005% maximum
Chloride	0.005% maximum

Physical Properties

Chemical Formula:	CF ₃ COOCH ₂ CH ₃
Mol. Wt.:	142.07
Boiling Pt.:	61.5 °C
Melting Pt.:	Not determined
Flash Pt.:	-1 °C
Density:	1.2 g/cm ³

Packaging

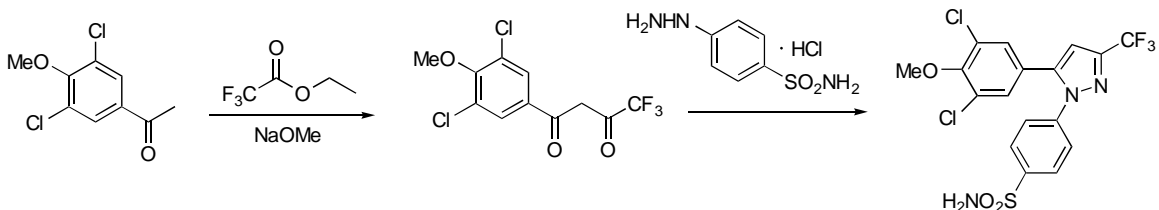
20 kg. carboys and 181 kg. drums. Bulk containers

Typical chemistry and uses

It is used as an intermediate in the synthesis of pharmaceutical and agricultural chemicals. The chemical reactions usually involve nucleophilic substitution of the ester and are useful for the preparation of trifluoroacylated compounds. Some examples from the recent literature are shown below.

Substituted pyrazolyl benzenesulfonamides for the treatment of inflammation

U.S. 6586603, G. D. Searle & Co. (Chicago, IL), 2003



Tricyclic 2-pyrimidone compounds useful as HIV reverse transcriptase inhibitors
U.S. 6844340, Bristol-Myers Squibb Company, 2005

