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Methyl trifluoropyruvate(abb.MTFP)

トリフルオロピルビン酸メチル

CF₃COCOOCH₃

Purity 98%

CAS Number 13089-11-7

Molecular Formula C4H3F3O3

Molecular Weight 156.06

5-Oxindoles (5-OIs) are known as physiologically active substances with neurological effects, such as serotonin and melatonin. Indometacin is also used as an anti-inflammatory agent, and dimecarbine is used to treat hypotension. Arbidol is distributed as an antiviral drug.

Although it has been widely accepted that introduction of a fluoroalkyl group improves lipophilicity and changes membrane permeability, a method for introducing a substituent containing fluorine in one step has not been reported. Ethyl 5-oxy-1H-indol-3-yl-carboxylate (1); We have found that fluoroalkyl groups can be introduced into dimecarbine in good yields by using fluoroketones and fluoropyruvate.

a. (1), CH3COOH,cyclo- C6F10O, 120°C*1hr, CH3NO2 recrystallize

b. (1), CH3COOH, MTFP, 120°C*1hr, CH3COOH and C6H6 wash

Fluorine Notes, 150, 5, 2023

Properties:

Appearance Liquid **Boiling point, °C** 87-88

Application