

## Chlorodifluoroacetic Acid

CAS No. 76-04-0

Chlorodifluoroacetic acid provides a convenient way to introduce the chlorodifluoromethyl group into more complex molecules. It is used in the production of various chemicals.

### Specifications

Assay by Gas Chromatography	97% minimum
Water	0.5% maximum
Fluoride	0.005% maximum
Chloride	0.01% maximum

### Physical Properties

Chemical Formula:	CF <sub>2</sub> ClCOOH
Mol. Wt.:	130.5
Boiling Pt.:	122 °C
Melting Pt.:	25 °C
Density:	1.48 g/cm <sup>3</sup>
Appearance and Odor:	Colorless liquid with vinegar like odor
Solubility in Water:	Miscible

### Packaging

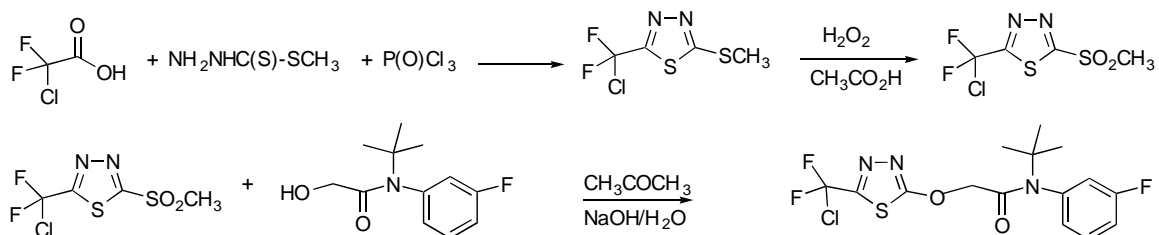
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### Typical chemistry and uses

Chlorodifluoroacetic acid is used as a building block in organic synthesis. The following examples from the patent literature show its use in the synthesis of both pharmaceutical and agricultural products.

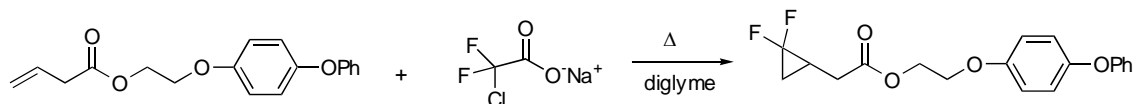
### Herbicidal 5-chlorodifluoromethyl-1,3,4-Thiadiazol-2-yl-oxyacetanilides

U.S. 6,602,827, 2003, Bayer Aktiengesellschaft



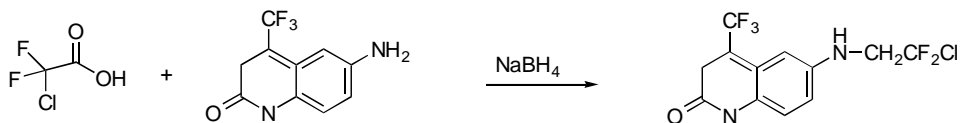
### 3-Butenoic acid derivatives as intermediates for pesticides

U.S. 5,326,901, 1994, Ciba-Geigy Corporation



### Quinolines and related compounds as androgen and progesterone receptor modulators

WO 0116108, 2001, Ligand Pharmaceuticals Inc.



### Compounds and their use as PDE inhibitors

U.S. 6617357, 2003, Smith Kline Beecham Corporation

