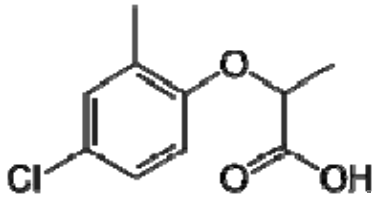
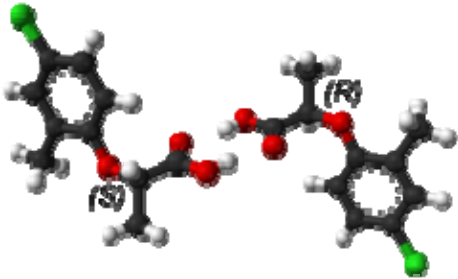


# Mecoprop

Mecoprop <sup>[1]</sup>	
 The image shows the chemical structure of Mecoprop, which is 2-(4-chloro-2-methylphenoxy)propanoic acid. It consists of a benzene ring with a chlorine atom at the para position and a methyl group at the ortho position. This ring is connected via an oxygen atom to a propanoic acid chain.	
 A 3D ball-and-stick model of Mecoprop. The atoms are color-coded: carbon (grey), oxygen (red), hydrogen (white), chlorine (green), and the carboxyl group (red and white). The model shows the spatial arrangement of the atoms, with labels (R) and (S) indicating stereochemistry.	
<a href="#">IUPAC name</a>	2-(4-chloro-2-methylphenoxy)propanoic acid
Identifiers	
<a href="#">CAS number</a>	<a href="#">[93-65-2]</a>
<a href="#">PubChem</a>	<a href="#">7153</a>
<a href="#">SMILES</a>	<chem>CC1=C(C=CC(=C1)Cl)OC(C)C(=O)O</chem>
Properties	
<a href="#">Molecular formula</a>	C <sub>10</sub> H <sub>11</sub> ClO <sub>3</sub>
<a href="#">Molar mass</a>	214.646

Appearance	Solid
<a href="#">Melting point</a>	94–95 °C <sup>[2]</sup>
<a href="#">Boiling point</a>	decomposes <sup>[2]</sup>
<a href="#">Solubility in water</a>	900 mg/l (20 °C) <sup>[2]</sup>
<b>Hazards</b>	
<a href="#">Main hazards</a>	Xn, N <sup>[2]</sup>
Except where noted otherwise, data are given for materials in their <a href="#">standard state</a> (at 25 °C, 100 kPa)	

**Mecoprop**, or methylchlorophenoxypropionic acid (MCPA), is a common general use [herbicide](#) found in many household weed killers and "weed-and-feed" type lawn fertilizers. <sup>[3]</sup> It is primarily used to control broadleaf weeds. <sup>[4]</sup> It is often used in combination with other chemically related herbicides such as [2,4-D](#), [dicamba](#), and [MCPA](#).

Mecoprop is a mixture of two [stereoisomers](#), with the (R)-(+)-[enantiomer](#) ("Mecoprop-P", "Duplosan KV") possessing the herbicidal activity <sup>[5]</sup>.

The [United States Environmental Protection Agency](#) has classified mecoprop as toxicity class III - slightly toxic. <sup>[4]</sup>

## See also

- [Clofibric acid](#)
- [Fenoprop](#)

## References

1. *Merck Index*, 11th Edition, **5666**.
2. <sup>a b c d</sup> [Record of Mecoprop](#) in the GESTIS Substance Database from the [BGIA](#), accessed on 8 September 2008
3. [Record](#) in the Household Products Database of [NLM](#)
4. <sup>a b</sup> [Mecoprop](#) at EXTOKNET
5. G. Smith, C. H. L. Kennard, A. H. White and P. G. Hodgson (April 1980). "(+)-2-(4-Chloro-2-methylphenoxy)propionic acid (mecoprop)". *Acta Cryst.* **B36** (4): 992-994. doi:[10.1107/S0567740880005134](https://doi.org/10.1107/S0567740880005134).

## External links

- [Mecoprop Pesticide Information Profile - Extension Toxicology Network](#)
- [Mecoprop](#) at AlanWood.net

Retrieved from "<http://en.wikipedia.org/wiki/Mecoprop>"

Categories: [Herbicides](#) | [Organochlorides](#) | [Carboxylic acids](#)