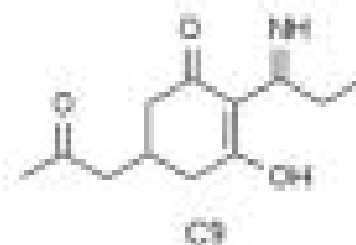
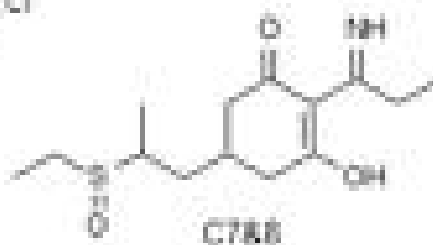
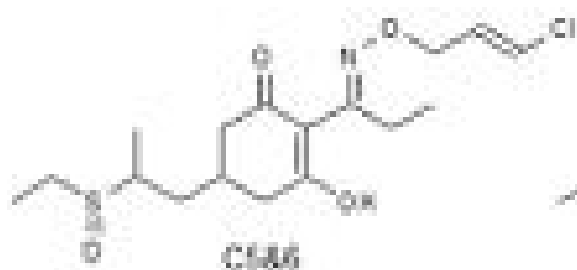
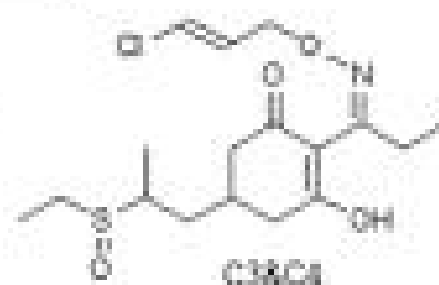
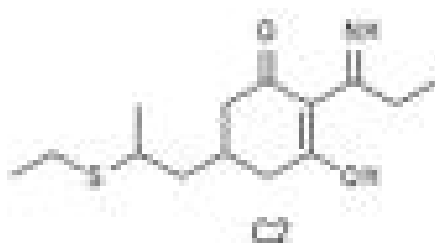
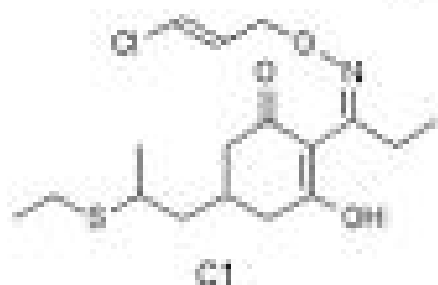
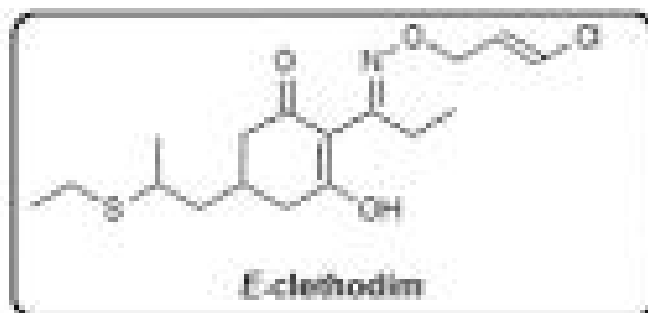


What is clethodim?

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About clethodim:

- It is an **oxime O-ether** resulting from the formal conversion of the acyclic keto group of oxime with chloroallyl group.
- It is **used as herbicide** that is used to control annual and perennial grasses.
- It is **highly soluble in water** and has a low volatility.
- It tends not to be persistent in soil or aquatic systems.
- It is moderately toxic to birds, fish, aquatic plants, honeybees and earthworms but is less toxic to aquatic invertebrates and algae.
- It is moderately toxic to mammals and while it is a skin irritant no evidence of it causing more serious health effects have been found.
- **Effects on human health**

- Exposure to this herbicide will impact **male reproductive function** and early embryonic development.
 - Also it causes reduction in testicular weight, a decrease in germ cell population, lower levels of serum testosterone, abnormalities in sperm, and compromised pre-implantation embryo development.
-

Q1) What is Testosterone?

Testosterone is a hormone that plays a crucial role in the development and functioning of male reproductive tissues and the promotion of secondary sexual characteristics in males. It belongs to a class of hormones known as androgens and is primarily produced in the testes in males.

Source: [A silent threat to male reproductive health: New study raises concerns on the use of common herbicide clethodim](#)

Source: <https://vajiramandravi.com/current-affairs/what-is-clethodim/>

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