The Diels-Alder reaction is a [4+2] cycloaddition in which a conjugated diene, called the diene, reacts with an alkene group or an alkyne group in a compound, called the dienophile, to give a cycloadduct, called the Diels-Alder adduct.

**eg. 1:**

![Diels-Alder Reaction 1](image1.png)

**eg. 2:**

![Diels-Alder Reaction 2](image2.png)

### Mechanism

The Diels-Alder reaction is a pericyclic reaction.

![Mechanism Diagram](image3.png)

see also [retro Diels-Alder reaction](#).

### Contributors and Attributions

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