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.

**example 1:**

![Diels-Alder reaction example 1](image1)

**example 2:**

![Diels-Alder reaction example 2](image2)

**Mechanism**

The Diels-Alder reaction is a pericyclic reaction.

![Mechanism diagram](image3)

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

**Contributors**

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