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**Friedel-Crafts reactions in aqueous media and their synthetic applications**

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**Abstract**

Water is one of green solvents and best alternative to organic solvents (solvents) in carrying out chemical reactions. Water has been explored extensively chemical reactions involving carbon-carbon bonds transformation since last one and half century. Water provides mild reaction conditions as well as protecting-group free synthesis along with reactivity and selectivity in organic synthesis. Moreover, it also facilitates the recycling of the catalyst and products produced in a chemical reaction. Being green and potentially environmental benign solvent, water has attracted much attention over organic solvents. In view of the importance of water as a solvent in organic synthesis, this review article validates the applications of water as a solvent for Friedel-Crafts based reaction, especially the C-C bond formations.

**Keywords:** Aqueous medium; non-catalyst synthesis; Friedel-Crafts reaction; Green chemistry; heterogeneous catalysis; homogeneous catalysis

**1. Introduction**

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