Enantioselective Fluoroallylboration of Aldehydes

**Significance:** An enantioselective fluoroallylboration of a variety of aldehydes with $B$-(3,3-difluoroallyl)diisopinocampheylborane has been disclosed. The resulting 2,2-gem-difluorinated homoallylic alcohols have been obtained in good yield and high enantioselectivity.

**Comment:** The described reaction proceeds in one pot. After the synthesis of $B$-(3,3-difluoroallyl)diisopinocampheylborane out of freshly prepared 1,1-difluoroallene, the aldehyde is added directly to the reaction mixture, followed by an oxidative workup.

**Selected examples:**

- **72% yield**
  - 94% ee
- **71% yield**
  - 93% ee
- **70% yield**
  - 94% ee
- **76% yield**
  - 97% ee
- **70% yield**
  - 91% ee
- **69% yield**
  - 92% ee

**SYNFACTS Contributors:** Paul Knochel, Christoph Sämann

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