



# Binary Species of Silicon and Fluorine (Gmelin Handbook of Inorganic and Organometallic Chemistry - 8th edition)

*Edwin Hengge, Robert Schlögl, Claudia Heinrich-Sterzel, Jörn v. Jouanne, Peter Merlet, Alfred Pebler, Sigrid Ruprecht, Hans Schäfer, Dag Schiöberg, Friedrich Schröder, Joachim Wagner*

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The volume is concerned exclusively with all the binary species formed between the elements silicon and fluorine such as SiF, SiF<sub>2</sub>, SiF<sub>3</sub>, SiF<sub>4</sub>, and SiF<sub>6</sub><sup>2-</sup>. Most of the volume, i.e. 144 pages, is devoted to the description of the well known physical and chemical properties of the SiF<sub>4</sub> as well as to its preparation. This is followed in length by the report on SiF<sub>2</sub> with its interesting chemistry, along with a section on the diatomic radical SiF. Species with fivefold and sixfold coordination of silicon are exemplified by SiF<sub>5</sub><sup>-</sup> and by the well known SiF<sub>6</sub><sup>2-</sup>. Interestingly, the detailed models for describing the bonding situation in both ions are still a matter of discussion. While for Si<sub>2</sub>F<sub>6</sub> most of the basic data are known, information on the chemical and physical properties of the higher members of the acyclic perfluorosilanes, Si<sub>n</sub>F<sub>2n+2</sub>, is scarce. All available information on the unstable cyclic perfluorosilanes of composition (SiF<sub>2</sub>)<sub>n</sub> and some even more exotic species is also included.

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