



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

*By 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  $\text{SiF}$ ,  $\text{SiF}_2$ ,  $\text{SiF}_3$ ,  $\text{SiF}_4$ , and  $\text{SiF}_6^{2-}$ . Most of the volume, i.e. 144 pages, is devoted to the description of the well known physical and chemical properties of the  $\text{SiF}_4$  as well as to its preparation. This is followed in length by the report on  $\text{SiF}_2$  with its interesting chemistry, along with a section on the diatomic radical  $\text{SiF}$ . Species with fivefold and sixfold coordination of silicon are exemplified by  $\text{SiF}_5^-$  and by the well known  $\text{SiF}_6^{2-}$ . Interestingly, the detailed models for describing the bonding situation in both ions are still a matter of discussion. While for  $\text{Si}_2\text{F}_6$  most of the basic data are known, information on the chemical and physical properties of the higher members of the acyclic perfluorosilanes,  $\text{Si}_n\text{F}_{2n+2}$ , is scarce. All available information on the unstable cyclic perfluorosilanes of composition  $(\text{SiF}_2)_n$  and some even more exotic species is also included.

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