



Experimental Methods in Organic Fluorine Chemistry

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In the fields of biologically active materials and functional materials, fluorinated organic materials are becoming a focus of significant interest. Over the past decade synthetic methodologies and reagents in fluorine chemistry have been developed, especially stereocontrolled synthetic methods, enzymatic resolution to synthesize enantiomers, fluoromethylated reagents, and fluorination reagents. These methods have contributed to the opening of new pathways for fluorinated materials. However, few fluorinated materials have been put to commercial use. Furthermore, there remain problems to be solved, such as the handling of the materials, availability of reagents and selectivity (stereo-, regio-, and/or chemoselectivity). Research chemists, technical engineers, and graduate students in all branches of chemistry, pharmaceuticals, and material science interested in fluorinated materials need to know detailed experimental procedures of how to synthesize the target fluorinated materials.

This volume summarizes the chemical and microbial methods for obtaining functionalized fluorinated materials for use as building blocks; detailed experimental methods (reaction conditions, solvent, temperature, handling techniques, etc.); and the stereoview (possible absolute configuration) of the structures with spectral data. Mono-, di-, tri-, and polyfluorinated materials derived from fluorinating agents, fluoromethylated reagents and building blocks are summarized. A chemical name index, molecular formula index, and reagent index are also included. The publication of this monograph will provide access to the enormous possibilities in fluorine chemistry, biological material chemistry, and functionalized material chemistry.

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