

## Escaping from flatland: $sp^3$ -fluorinated fragments

Fluorinated motifs are **valued molecular fragments in medicinal chemistry and crop science**. The introduction of  $sp^3$  carbons has drawn the attention of synthetic community to prepare new molecules with optimal biological activity and drug-like properties. At Melius Organics we provide a range of reagents capable of introducing these fragments in a **late-stage** fashion.

We have **vast experience in the organic fluorine field**. Contact us for customized solutions.



Custom synthesis



Gaseous reagents



Organometallic



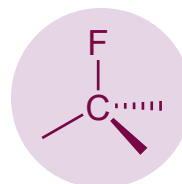
Flow chemistry



Photochemistry

### Fluorine

- Influences conformation,  $pK_a$  of neighboring groups, lipophilicity and bioavailability



$sp^3$  structure

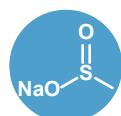
- Rotable bonds, higher flexibility, more conformations, higher solubility

## Our products in catalog

### Sulfonates and sulfonyl halides

Sulfonate salts are a versatile class of reagents in organic synthesis for the preparation of sulfones, sulfonamides, and C-C bond couplings via radical C-H functionalization.

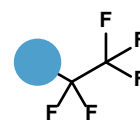
Sulfonyl halides are valuable reagents to prepare sulfonamides and other  $S^{VI}$  motifs. We offer both chloride and fluoride forms.



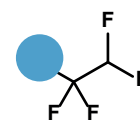
Sulfonates  
SUC



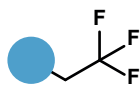
Sulfonyl halide  
SUA, X: Cl



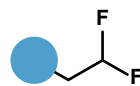
SUC/SUA001



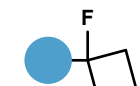
SUC/SUA002



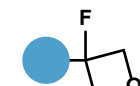
SUC/SUA003



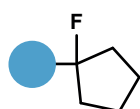
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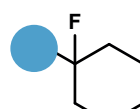
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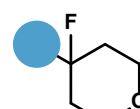
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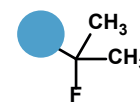
SUC/SUA007



SUC/SUA008



SUC/SUA009



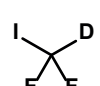
SUC/SUA010

### Fluoroalkyl electrophiles

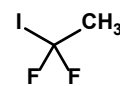
We offer a range of fluoroalkyl halides, tosylates and difluorocarbene sources to introduce fluoroalkyl units in multiple organic structures.



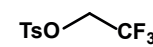
in solution  
RFH001



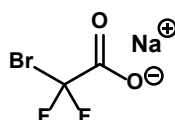
in solution  
RFH002



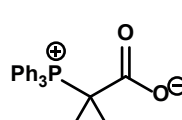
RFH003



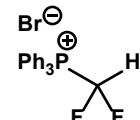
FAS001



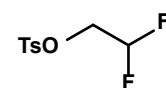
DFS001



DFS002



DFS003



FAS002

