

## Hexafluoroacetone sesquihydrate

CAS No. 13098-39-0

Hexafluoroacetone sesquihydrate is used as a building block in organic synthesis.

### Proposed Specifications

Assay by Gas Chromatography	99% minimum
Water	13.8-14.2% by wt.
Appearance	colorless liquid

### Physical Properties

Chemical Formula:	CF <sub>3</sub> COCF <sub>3</sub> .1.5H <sub>2</sub> O
Mol. Wt.:	193.02
Boiling Pt.:	Not determined
Melting Pt.:	18-210 °C
Density:	1.69 g/mL at 25 °C

### Packaging

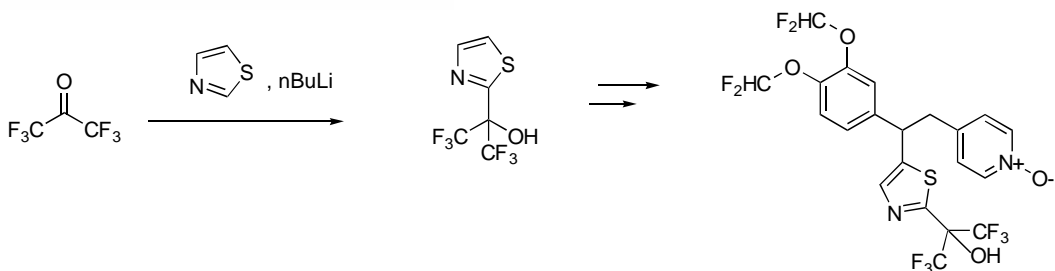
Contact Customer Service

### Typical chemistry and uses

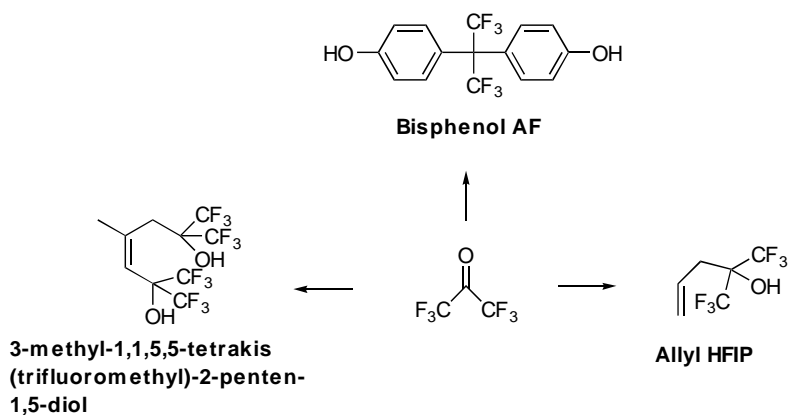
Anhydrous hexafluoroacetone is a colorless gas. It can be generated from the sesquihydrate by distillation from concentrated sulfuric acid. Hexafluoroacetone is a useful building block in organic synthesis. Some examples of its use are shown below.

#### **Tri-aryl substituted ethane phosphodiesterase-4 inhibitors**

US 6,841,564, 2005, Merck Frosst Canada & Co.



Hexafluoroacetone is widely used in the synthesis of monomers that are used to prepare specialty polymers. Some examples of these monomers are shown below.



### Fluorinated Vitamin D3 analog

Ojima, J. McCarthy, J. Welch, *Biomedical frontiers of Fluorine Chemistry*, Chapter 16, Pg. 218.

