

Hexafluoroacetone trihydrate

CAS No. 34202-69-2

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

Proposed Specifications

Assay by Gas Chromatography	99% minimum
Water	24.3-24.8% by wt.
Appearance	colorless liquid

Physical Properties

Chemical Formula:	$\text{CF}_3\text{COCF}_3 \cdot 3\text{H}_2\text{O}$
Mol. Wt.:	220.05
Boiling Pt.:	106-108 °C
Melting Pt.:	18-20 °C
Density:	1.59 g/mL at 25 °C

Packaging

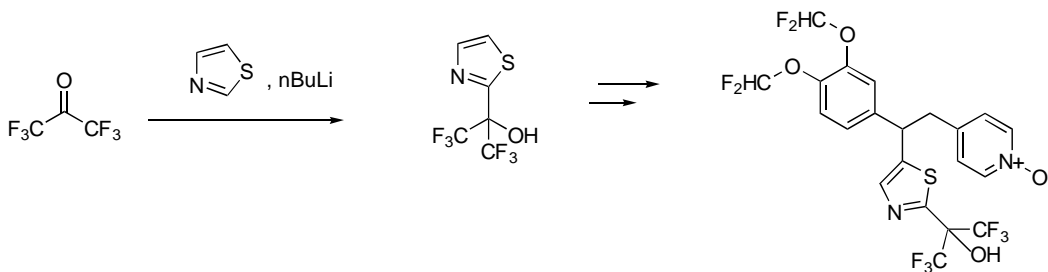
Contact Customer Service

Typical chemistry and uses

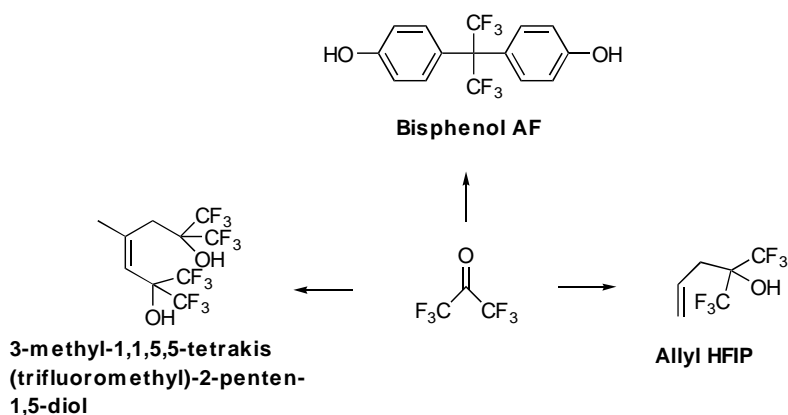
Anhydrous hexafluoroacetone is a colorless gas. It can be generated from the trihydrate by distillation from concentrated sulfuric acid. Hexafluoroacetone is a useful building block in organic synthesis. Some examples of its use are shown below.

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

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

