

Decafluorobenzophenone

Chemical Properties

CAS No.:	853-39-4
Formula:	C13F10O
Molecular Weight:	362.13
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).

Biological Description

Description	Decafluorobenzophenone is used in the synthesis of fluorinated acridones and acridines. Decafluorobenzophenone alcoholic solution generates radical anion and ketyl which can be studied by electron spin resonance spectra. It undergoes photolysis to form ketyl (C6F5)C.OH radica.
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Solubility Information

Solubility	DMSO: Soluble (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.761 mL	13.807 mL	27.614 mL
5 mM	0.552 mL	2.761 mL	5.523 mL
10 mM	0.276 mL	1.381 mL	2.761 mL
50 mM	0.055 mL	0.276 mL	0.552 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

1. Mohapatra H, Umapathy S. Time-resolved resonance Raman studies on proton-induced electron-transfer reaction from triplet excited state of 2-methoxynaphthalene to decafluorobenzophenone. *J Phys Chem A*. 2010 Dec 2;114(47):12447-51. doi: 10.1021/jp109821r. Epub 2010 Nov 8. PubMed PMID: 21058635.
2. Fujisawa T, Ito T, Terazima M, Kimura Y. Raman spectroscopic study of the solvation of decafluorobenzophenone ketyl radical and related compounds in 2-propanol at ambient to supercritical temperatures. *J Phys Chem A*. 2008 Mar 6;112(9):1914-21. doi: 10.1021/jp077245j. Epub 2008 Feb 13. PubMed PMID: 18269267.
3. Qi Y, Jiang J, Callender CL, Day M, Ding J. Cross-linkable bromo-fluorinated poly(arylene ether ketone)s for photonic device applications. *Appl Opt*. 2006 Oct 1;45(28):7480-7. PubMed PMID: 16983437.

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