

m 15

Chemical Properties

CAS No.:	52364-71-3
Formula:	C ₁₈ H ₁₉ NO
Molecular Weight:	265.36
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).

Biological Description

Description	M 15 liquid crystals are a member of the oxycyanobiphenyl family, which exhibits a liquid crystalline phase in the temperature range of 47-67.5°C.
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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	3.768 mL	18.842 mL	37.685 mL
5 mM	0.754 mL	3.768 mL	7.537 mL
10 mM	0.377 mL	1.884 mL	3.768 mL
50 mM	0.075 mL	0.377 mL	0.754 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. X-Ray Studies on the Mesogen 4'-n-Pentyloxy-4-Biphenylcarbonitrile(5OCB) in the Solid Crystalline State Mandal P and Paul S Mol. Cryst. Liq. Cryst. 131(3-4), -, (1985)
2. Wide-line 1H NMR study of 4'-n-(pentyloxy)-4-biphenylcarbonitrile in different phase states Chuvaev VF, et al. Russian Journal of Inorganic Chemistry 53(12), 1925-1928, ()

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