**PRODUCT INFORMATION**

**4,4’-Dimethoxyoctafluorobiphenyl**

*Item No. 18652*

- **CAS Registry No.:** 2200-71-7
- **Formal Name:** 2,2',3,3',5,5',6,6'-octafluoro-4,4'-dimethoxy-1,1'-biphenyl
- **Synonym:** NSC 97033
- **MF:** C₁₄H₁₆F₈O₂
- **FW:** 358.2
- **Purity:** ≥95%
- **UV/Vis.:** λ_max: 244 nm
- **Supplied as:** A crystalline solid
- **Stability:** ≥2 years at -20°C
- **Storage:** -20°C

Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

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**Laboratory Procedures**

4,4’-Dimethoxyoctafluorobiphenyl is supplied as a crystalline solid. A stock solution may be made by dissolving the 4,4’-dimethoxyoctafluorobiphenyl in the solvent of choice, which should be purged with an inert gas. 4,4’-Dimethoxyoctafluorobiphenyl is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF). The solubility of 4,4’-dimethoxyoctafluorobiphenyl in ethanol and DMF is approximately 30 mg/ml and approximately 20 mg/ml in DMSO.

4,4’-Dimethoxyoctafluorobiphenyl is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, 4,4’-dimethoxyoctafluorobiphenyl should first be dissolved in ethanol and then diluted with the aqueous buffer of choice. 4,4’-Dimethoxyoctafluorobiphenyl has a solubility of approximately 0.3 mg/ml in a 1:2 solution of ethanol:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

**Description**

4,4’-Dimethoxyoctafluorobiphenyl is a compound that has been used to investigate the relationship between intramolecular rotational dynamics and molecular and crystal structure using NMR spin-lattice relaxation experiments.¹

**Reference**