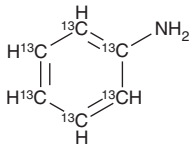
PRODUCT INFORMATION

Aniline-$^{13}C_6$

Item No. 30523

CAS Registry No.: 100849-37-4
Formal Name: benzenamine-1,2,3,4,5,6-$^{13}C_6$
Synonyms: Aminobenzene-$^{13}C_6$, Benzenamine-$^{13}C_6$, Phenylamine-$^{13}C_6$
MF: $[^{13}C]_6H_7N$
FW: 99.1
Purity: ≥98%
UV/Vis.: λ_{max}: 290 nm
Supplied as: A neat oil
Storage: -20°C
Stability: ≥4 years



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

Laboratory Procedures

Aniline-$^{13}C_6$ is supplied as a neat oil. A stock solution may be made by dissolving the aniline-$^{13}C_6$ in the solvent of choice, which should be purged with an inert gas. Aniline-$^{13}C_6$ is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide. The solubility of aniline-$^{13}C_6$ in these solvents is approximately 30 mg/ml.

Aniline-$^{13}C_6$ is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, aniline-$^{13}C_6$ should first be dissolved in ethanol and then diluted with the aqueous buffer of choice. Aniline-$^{13}C_6$ has a solubility of approximately 0.2 mg/ml in a 1:4 solution of ethanol:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Description

Aniline-$^{13}C_6$ is a building block.[1,2] It has been used in the synthesis of $^{13}C_6$-labeled derivatives of tryptophan and indole, as well as $^{13}C_6$-labeled benzimidazoles.

References

1. Ilić, N. and Cohen, J.D. Synthesis of [^{13}C]-isotopomers of indole and tryptophan for use in the analysis of indole-3-acetic acid biosynthesis. *J. Label. Compd. Radiopharm.* **47(10)**, 635-646 (2004).
2. Donahue, M.G., Jentsch, N.G., and Simons, C.R. Synthesis of [$^{13}C_6$]3,4-diaminobenzoic acid as a precursor for stable isotope labeled benzimidazoles. *Tetrahedron Lett.* **58(17)**, 1692-1694 (2017).

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