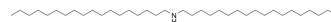


Diocadecylamine

Cat. No.:	HY-142981
CAS No.:	112-99-2
Molecular Formula:	C ₃₆ H ₇₅ N
Molecular Weight:	521.99
Target:	Biochemical Assay Reagents
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

Diocadecylamine (DODA) is a secondary amine that has been shown to self-organize in plate-like structures in aqueous solution. Diocadecylamine exhibits sufficiently hydrophobic properties of nanoparticles and good dispersibility in nonpolar solvent. Diocadecylamine does not form a monolayer above pH 3.9^{[1][2][3]}.

REFERENCES

- [1]. Soliwoda K, et al. Effect of the alkyl chain length of secondary amines on the phase transfer of gold nanoparticles from water to toluene. *Langmuir*. 2014 Jun 17;30(23):6684-93.
- [2]. Huetz P, et al. Ab initio study of the influence of conformation on partial charge distribution of diocadecylamine. *Chemical physics letters*, 2003, 380(3-4): 424-434.
- [3]. Flores A, et al. The diocadecylamine monolayer: Textures, phase transitions, and dendritic growth. *The Journal of chemical physics*, 2003, 119(11): 5644-5653.

Caution: Product has not been fully validated for medical applications. For research use only.

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