

## TPGS-750-M

## Chemical Properties

CAS No. :	1309573-60-1
Formula:	(C <sub>2</sub> H <sub>4</sub> O) <sub>n</sub> C <sub>3</sub> H <sub>5</sub> O <sub>5</sub>
Molecular Weight:	
Storage:	Powder: -20°C for 3 years   In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>

## Biological Description

Description	TPGS-750-M is an environmentally friendly amphiphilic surfactant composed of racemic $\alpha$ -tocopherol, MPEG-750, and succinic acid, suitable for metal-catalysed cross-coupling reactions in aqueous media.
Targets(IC50)	Others
In vitro	TPGS-750-M (2 wt%) was used to test the stability of NPYM-modified drugs in biological fluids [4]. TPGS-750-M (2.5 w/v%) could increase the styrene titer in the Escherichia coli C43PF culture medium to above 6 mM [5].

## Solubility Information

Solubility	H <sub>2</sub> O: 40 mg/mL, Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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## Reference

- Lipshutz BH, et al. TPGS-750-M: a second-generation amphiphile for metal-catalyzed cross-couplings in water at room temperature. *J Org Chem.* 2011 Jun 3;76(11):4379-91.
- Cetin A, et al. Aqueous TPGS-750-M-mediated synthesis of pyrano [2, 3-c]-pyrazoles: a sustainable and efficient approach[J]. *Research on Chemical Intermediates*, 2024: 1-14.
- Wu B, et al. Merging biocatalysis, flow, and surfactant chemistry: innovative synthesis of an FXI (Factor XI) inhibitor [J]. *Organic Process Research & Development*, 2020, 24(11): 2780-2788.
- Ermini E, et al. A novel bioresponsive self-immolative spacer based on aza-quinone methide reactivity for the controlled release of thiols, phenols, amines, sulfonamides or amides. *Chem Sci.* 2024 Apr 2;15(16):6168-6177.
- Maaskant R V, et al. Merging whole-cell biosynthesis of styrene and transition-metal catalyzed derivatization reactions. *ChemCatChem*, 2021, 13(6): 1607-1613.

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