

Polyvinyl alcohol (Mw 146000-186000, 87-89% hydrolyzed)

## Chemical Properties

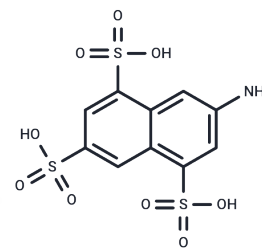
CAS No. : 27310-25-4

Formula: C<sub>10</sub>H<sub>9</sub>NO<sub>9</sub>S<sub>3</sub>

Molecular Weight: 383.38

Storage: Store under nitrogen  
Store at RT

Actual storage temperature shall be subject to the COA.



## Biological Description

Description	Polyvinyl alcohol (MW 146,000-186,000) is a polyvinyl alcohol with hydrolytic properties, commonly used in biomaterials and tissue engineering.
Targets(IC50)	Others
In vivo	Polyvinyl alcohol (0-5000 mg/kg/day, oral, 70 days) did not show any adverse toxicological or reproductive effects in male and female SD rats.[2]

## Solubility Information

Solubility	H <sub>2</sub> O: 2 mg/mL (5.22 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.6084 mL	13.0419 mL	26.0838 mL
5 mM	0.5217 mL	2.6084 mL	5.2168 mL
10 mM	0.2608 mL	1.3042 mL	2.6084 mL
50 mM	0.0522 mL	0.2608 mL	0.5217 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

### Reference

Türkoğlu, G. C., et al., (2024). PVA-Based Electrospun Materials-A Promising Route to Designing Nanofiber Mats with Desired Morphological Shape-A Review. International journal of molecular sciences, 25(3), 1668.

DeMerlis CC, et al. Review of the oral toxicity of polyvinyl alcohol (PVA). Food Chem Toxicol. 2003 Mar;41(3):319-26.

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