

## Sorbitan monolaurate

## Chemical Properties

CAS No. : 1338-39-2

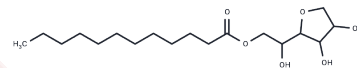
Formula: C<sub>18</sub>H<sub>34</sub>O<sub>6</sub>

Molecular Weight: 346.46

Pure form: -20°C for 3 years | In solvent: -80°C for 1

Storage: year

Actual storage temperature shall be subject to the COA.



## Biological Description

Description	Sorbitan monolaurate (Arlacel 20) is an dehydrated sorbitan ester surfactant commonly used in the skin care industry.
Targets(IC50)	Others

## Solubility Information

Solubility	DMSO: 245 mg/mL (707.15 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween-80+45% Saline: 0.5 mg/mL (1.44 mM),Sonication is recommended. 10% DMSO+90% Saline: 10 mg/mL (28.86 mM),Suspension. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.8863 mL	14.4317 mL	28.8634 mL
5 mM	0.5773 mL	2.8863 mL	5.7727 mL
10 mM	0.2886 mL	1.4432 mL	2.8863 mL
50 mM	0.0577 mL	0.2886 mL	0.5773 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

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Elder DP, et al. Pharmaceutical excipients - quality, regulatory and biopharmaceutical considerations. Eur J Pharm Sci. 2016 May 25;87:88-99.

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Khan MI, Madni A, Peltonen L. Development and in-vitro characterization of sorbitan monolaurate and poloxamer 184 based niosomes for oral delivery of diacerein. Eur J Pharm Sci. 2016 Dec 1;95:88-95. doi: 10.1016/j.ejps.2016.09.002. Epub 2016 Sep 4. PubMed PMID: 27600819.

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