

## Dermabond

## Chemical Properties

CAS No. :	133978-15-1
Formula:	C <sub>12</sub> H <sub>19</sub> NO <sub>2</sub>
Molecular Weight:	209.285
Storage:	Powder: -20°C for 3 years   In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.

## Biological Description

Description	Dermabond (2-Octyl cyanoacrylate) is a tissue adhesive commonly used for wound or surgical incision closure, with antibacterial properties, and is used in studies of wound healing.
Targets(IC50)	Others,Antibacterial

## Solubility Information

Solubility	DMSO: 250.00 mg/mL (1194.54 mM) (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Saline: 10.00 mg/mL (47.78 mM),Solution. <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	4.7781 mL	23.8903 mL	47.7806 mL
5 mM	0.9556 mL	4.7781 mL	9.5561 mL
10 mM	0.4778 mL	2.389 mL	4.7781 mL
50 mM	0.0956 mL	0.4778 mL	0.9556 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

- Bernard L, et al. A prospective comparison of octyl cyanoacrylate tissue adhesive (dermabond) and suture for the closure of excisional wounds in children and adolescents. Arch Dermatol. 2001 Sep;137(9):1177-80.
- Lee E, et al. Complications associated with Dermabond® during head and neck surgery: MAUDE and literature review. Am J Otolaryngol. 2022 Mar-Apr;43(2):103330.
- Rushbrook JL, et al. The antibacterial effect of 2-octyl cyanoacrylate (Dermabond®) skin adhesive. J Infect Prev. 2014 Nov;15(6):236-239.
- Fakhoury E, et al. Dermabond and Tegaderm: A Better Surgical Incision Dressing. Ann Vasc Surg. 2019 Oct;60:463-467.
- Cook KA, et al. Patch Testing Ingredients of Dermabond and Other Cyanoacrylate-Containing Adhesives. Dermatitis. 2019 Sep/Oct;30(5):314-322.

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