

## Wollastonite

## Chemical Properties

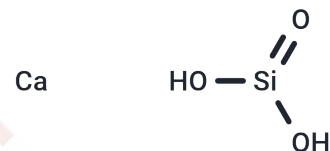
CAS No. : 13983-17-0

Formula: CaH<sub>2</sub>O<sub>3</sub>Si

Molecular Weight: 118.18

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	Wollastonite is an industrial mineral comprised chemically of calcium, silicon, and oxygen. It has been determined to have low biopersistence in both in vivo and in vitro studies, which probably accounts for its relative lack of toxicity. There are no pleural plaques or interstitial lung disease or decrements in lung function among never smokers or former smokers occupationally exposed to wollastonite.
Targets(IC50)	Others

## Solubility Information

Solubility	DMSO: Soluble, (< 1 mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	8.4617 mL	42.3083 mL	84.6167 mL
5 mM	1.6923 mL	8.4617 mL	16.9233 mL
10 mM	0.8462 mL	4.2308 mL	8.4617 mL
50 mM	0.1692 mL	0.8462 mL	1.6923 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

- Maxim LD, Niebo R, Utell MJ, McConnell EE, Larosa S, Segrave AM. Wollastonite toxicity: an update. *Inhal Toxicol.* 2014 Feb;26(2):95-112. doi: 10.3109/08958378.2013.857372. Review. PubMed PMID: 24495246.
- Lee JK, Eum S, Kim J, Hwang KH. Fabrication of Wollastonite Coatings on Zirconia by Room Temperature Spray Process. *J Nanosci Nanotechnol.* 2016 Feb;16(2):1996-9. PubMed PMID: 27433716.
- Longo RC, Cho K, Brüner P, Welle A, Gerdes A, Thissen P. Carbonation of wollastonite(001) competing hydration: microscopic insights from ion spectroscopy and density functional theory. *ACS Appl Mater Interfaces.* 2015 Mar 4;7(8):4706-12. doi: 10.1021/am508313g. Epub 2015 Feb 18. PubMed PMID: 25648453.
- Lakshmi R, Sasikumar S. Influence of needle-like morphology on the bioactivity of nanocrystalline wollastonite-- an in vitro study. *Int J Nanomedicine.* 2015 Oct 1;10 Suppl 1:129-36. doi: 10.2147/IJN.S79986. eCollection 2015. PubMed PMID: 26491314; PubMed Central PMCID: PMC4599603.

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