

Silicon dioxide

Chemical Properties

CAS No. : 7631-86-9

Formula: O₂Si

Molecular Weight: 60.08

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	Silicon dioxide is a transparent, tasteless crystals found in nature as agate, amethyst, chalcedony, cristobalite, flint, sand, QUARTZ, and tridymite. The compound is insoluble in water or acids except hydrofluoric acid.
Targets(IC50)	Endogenous Metabolite

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	16.6445 mL	83.2224 mL	166.4447 mL
5 mM	3.3289 mL	16.6445 mL	33.2889 mL
10 mM	1.6644 mL	8.3222 mL	16.6445 mL
50 mM	0.3329 mL	1.6644 mL	3.3289 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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- Chen W, Duša F, Witos J, Ruokonen SK, Wiedmer SK. Determination of the Main Phase Transition Temperature of Phospholipids by Nanoplasmonic Sensing. *Sci Rep.* 2018 Oct 4;8(1):14815. doi: 10.1038/s41598-018-33107-5. PubMed PMID: 30287903; PubMed Central PMCID: PMC6172256.
- Channei D, Nakaruk A, Khanitchaidecha W, Jannoey P, Phanichphant S. Adsorption and Photocatalytic Processes of Mesoporous SiO₂-Coated Monoclinic BiVO₄. *Front Chem.* 2018 Sep 19;6:415. doi: 10.3389/fchem.2018.00415. eCollection 2018. PubMed PMID: 30283773; PubMed Central PMCID: PMC6156254.
- Song E, Li R, Jin X, Du H, Huang Y, Zhang J, Xia Y, Fang H, Lee YK, Yu KJ, Chang JK, Mei Y, Alam MA, Huang Y, Rogers JA. Ultrathin Trilayer Assemblies as Long-Lived Barriers against Water and Ion Penetration in Flexible Bioelectronic Systems. *ACS Nano.* 2018 Oct 5. doi: 10.1021/acsnano.8b05552. [Epub ahead of print] PubMed PMID: 30281278.

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