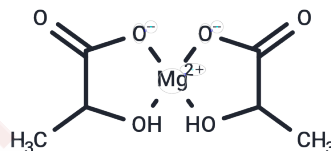


## Magnesium lactate

## Chemical Properties

CAS No. :	18917-93-6
Formula:	C <sub>6</sub> H <sub>10</sub> MgO <sub>6</sub>
Molecular Weight:	202.45
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	Magnesium lactate is a magnesium donor and buffering agent.
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	4.9395 mL	24.6975 mL	49.3949 mL
5 mM	0.9879 mL	4.9395 mL	9.879 mL
10 mM	0.4939 mL	2.4697 mL	4.9395 mL
50 mM	0.0988 mL	0.4939 mL	0.9879 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

- Setaro L, Santos-Silva PR, Nakano EY, Sales CH, Nunes N, Greve JM, Colli C. Magnesium status and the physical performance of volleyball players: effects of magnesium supplementation. *J Sports Sci.* 2014;32(5):438-45. doi: 10.1080/02640414.2013.828847. Epub 2013 Sep 9. PubMed PMID: 24015935.
- Brown A, Zaky S, Ray H Jr, Sfeir C. Porous magnesium/PLGA composite scaffolds for enhanced bone regeneration following tooth extraction. *Acta Biomater.* 2015 Jan;11:543-53. doi: 10.1016/j.actbio.2014.09.008. Epub 2014 Sep 16. PubMed PMID: 25234156.
- Perkins J, Xu Z, Smith C, Roy A, Kumta PN, Waterman J, Conklin D, Desai S. Direct writing of polymeric coatings on magnesium alloy for tracheal stent applications. *Ann Biomed Eng.* 2015 May;43(5):1158-65. doi: 10.1007/s10439-014-1169-3. Epub 2014 Oct 28. PubMed PMID: 25348845.
- Yamada S, Yamamoto A, Kasuga T. Poly(L-lactic acid)/vaterite composite coatings on metallic magnesium. *J Mater Sci Mater Med.* 2014 Dec;25(12):2639-47. doi: 10.1007/s10856-014-5302-5. Epub 2014 Aug 6. PubMed PMID: 25096227.

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