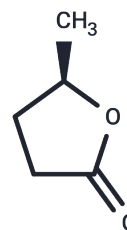


(R)- $\gamma$ -Valerolactone

## Chemical Properties

CAS No. :	58917-25-2
Formula:	C <sub>5</sub> H <sub>8</sub> O <sub>2</sub>
Molecular Weight:	100.12
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	(R)- $\gamma$ -Valerolactone is a precursor molecule for antihypertensive compounds, suitable for biochemical experiments and drug synthesis research.
Targets(IC50)	Others, Drug Metabolite

## Solubility Information

Solubility	DMF: 5 mg/mL (49.94 mM), Sonication is recommended. Ethanol: 5 mg/mL (49.94 mM), Sonication is recommended. DMSO: 5 mg/mL (49.94 mM), Sonication is recommended. PBS (pH 7.2): 0.5 mg/mL (4.99 mM), Sonication is recommended. ( $< 1$ mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	9.988 mL	49.9401 mL	99.8801 mL
5 mM	1.9976 mL	9.988 mL	19.976 mL
10 mM	0.9988 mL	4.994 mL	9.988 mL
50 mM	0.1998 mL	0.9988 mL	1.9976 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

Cha J, et al. Bio-mitigation of CO<sub>2</sub>: The co-production of phycocyanin and optically pure (R)- $\gamma$ -valerolactone with perfect enantiomeric excess[J]. Bioresource Technology, 2024: 131895.

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