

## L-Erythrose

## Chemical Properties

CAS No. : 533-49-3

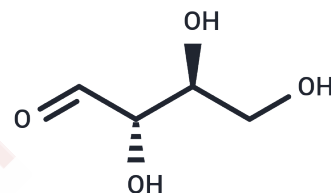
Formula: C<sub>4</sub>H<sub>8</sub>O<sub>4</sub>

Molecular Weight: 120.1

Store at low temperature

Storage: Pure form: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



## Biological Description

Description	L-Erythrose (L-(+)-Erythrose) is a tetrasaccharide and an aldose, and oxidizing bacteria are able to use L-Erythrose as their sole source of energy. L-Erythrose is involved in the synthesis of erythritol, and can therefore be used in glycosylation studies and to characterize erythrose reductase (ER) activity.
Targets(IC50)	Others

## Solubility Information

Solubility	H <sub>2</sub> O: 100 mg/mL (832.64 mM), Sonication is recommended. DMSO: 5 mg/mL (41.63 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	8.3264 mL	41.632 mL	83.2639 mL
5 mM	1.6653 mL	8.3264 mL	16.6528 mL
10 mM	0.8326 mL	4.1632 mL	8.3264 mL
50 mM	0.1665 mL	0.8326 mL	1.6653 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

Draskovits M, Stanetty C, Baxendale IR, Mihovilovic MD. Indium- and Zinc-Mediated Acyloxyallylation of Protected and Unprotected Aldotetroses-Revealing a Pronounced Diastereodivergence and a Fundamental Difference in the Performance of the Mediating Metal. *J Org Chem*. 2018 Mar 2;83(5):2647-2659.

Zou X, et al. Biosynthesis of L-Erythrose by Assembly of Two Key Enzymes in *Gluconobacter oxydans*. *J Agric Food Chem*. 2017 Sep 6;65(35):7721-7725.

Zweckmair T, Böhmdorfer S, Bogolitsyna A, Rosenau T, Potthast A, Novalin S. Accurate analysis of formose reaction products by LC-UV: an analytical challenge. *J Chromatogr Sci*. 2014 Feb;52(2):169-75.

Jasiński M, Lentz D, Reissig HU. Carbohydrate-auxiliary assisted preparation of enantiopure 1,2-oxazine derivatives and aminopolyols. *Beilstein J Org Chem*. 2012;8:662-74. Epub 2012 Apr 30.

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