

Product Data Sheet

Product Name: D-Xylonic acid lithium

Cat. No.: GC81831

Chemical Properties

Cas. No.

Formula $C_5H_{10}O_6 \cdot xLi$ M.Wt 166.13

Solubility H_2O : 100 mg/mL (Need ultrasonic) Storage Store at $-20^{\circ}C$

General tips For obtaining a higher solubility, please warm the tube at $37^{\circ}C$ and shake it in the ultrasonic bath for a while. Stock solution can be stored below $-20^{\circ}C$ for several months.

Shipping Condition Evaluation sample solution: ship with blue ice All other available size: ship with RT, or blue ice upon request.

Structure



Background

D-Xylonic acid lithium is a bio-based platform chemical that acts as a water reducer and dispersant for cement, and also serves as a precursor for 1,4-butanediol, 1,2,4-butanetriol, copolyamides, and 3,4-dihydroxybutyrate [1].

In Vitro, Biobased platform chemicals are multifunctional basic intermediates produced from renewable biomass feedstocks such as straw and starch via fermentation, enzymatic or chemical conversion. They can be derivatized to synthesize a variety of downstream products including polymers, solvents and materials, and serve as core molecular building blocks to replace petroleum-

Caution: Product has not been fully validated for medical applications. For research use only.

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based chemical feedstocks.

References:

[1]. Mao X, et al. Overexpression of mGDH in *Gluconobacter oxydans* to improve D-xylonic acid production from corn stover hydrolysate. *Microbial cell factories*. 2022 Mar 09;21(1):35.

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