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°C
General tips	For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20°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-

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.