

3050 Spruce Street, Saint Louis, MO 63103, USA

Website: www.sigmaaldrich.comEmail USA: techserv@sial.comOutside USA: eurtechserv@sial.com

Product Specification

Product Name:

Lithium difluorophosphate - $\geq 99\%$ trace metals basis, acid ≤ 200 ppm, battery gradeProduct Number: **933708**

CAS Number: 24389-25-1

Formula: $\text{F}_2\text{LiO}_2\text{P}$

Formula Weight: 107.91 g/mol

Storage Temperature: 2 - 8 °C

TEST	Specification
Appearance (Color)	White to Off White
Appearance (Form)	Powder or Crystals
Infrared Spectrum	Conforms to Structure
Chloride Content	≤ 10 ppm
Sulfate (SO_4)	≤ 50 ppm
Water (by Karl Fischer)	≤ 0.1 %
Hydrogen Fluoride (HF)	≤ 200 ppm
ICP Major Analysis	Confirmed
Confirms Phosphorus component	
Purity	Meets Requirements
> = 99.9% Based on Trace Metal Analysis	
Trace Metal Analysis	≤ 1000.0 ppm
Silver (Ag)	
Aluminum (Al)	
Arsenic (As)	
Boron (B)	
Barium (Ba)	
Beryllium (Be)	
Bismuth (Bi)	
Calcium (Ca)	≤ 5.0 ppm
Cadmium (Cd)	
Cobalt (Co)	
Chromium (Cr)	
Copper (Cu)	
Iron (Fe)	≤ 5.0 ppm

Sigma-Aldrich warrants, that at the time of the quality release or subsequent retest date this product conformed to the information contained in this publication. The current Specification sheet may be available at Sigma-Aldrich.com. For further inquiries, please contact Technical Service. Purchaser must determine the suitability of the product for its particular use. See reverse side of invoice or packing slip for additional terms and conditions of sale.



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TEST	Specification
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Iridium (Ir)	
Potassium (K)	≤ 5.0 ppm
Magnesium (Mg)	
Manganese (Mn)	
Molybdenum (Mo)	
Sodium (Na)	≤ 5.0 ppm
Nickel (Ni)	
Lead (Pb)	≤ 5.0 ppm
Palladium (Pd)	
Platinum (Pt)	
Antimony (Sb)	
Tin (Sn)	
Strontium (Sr)	
Titanium (Ti)	
Vanadium (V)	
Tungsten (W)	
Zinc (Zn)	
Zirconium (Zr)	
Cesium (Cs)	
Rubidium (Rb)	
Recommended Retest Period	-----
2 years	

Specification: PRD.0.ZQ5.10000108368

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