

Lithium Sulfide, powder (LI-2920)

Li₂S

Our Strengths

Lorad Chemical Corporation is the world's most experienced manufacturer of Li₂S powder for sulfide-based solid electrolytes, cathodes, and catalyst applications. Lorad has twenty-five years of experience manufacturing Li₂S powder and has developed an in-house proprietary process that produces a consistently high-purity powder with variable characteristics depending on our customer's application.

Lithium Sulfide is available in large scale commercial quantities with the industry's best lead times.

Chemical and Physical Properties

Purity (typical)	Li ₂ S	> 99.95% (metals basis)
	Al	< 20 ppm
	B	< 10 ppm
	Ca	< 60 ppm
	Fe	< 30 ppm
	Mg	< 30 ppm
	K	< 50 ppm
	Na	< 120 ppm
	Si	< 100 ppm
	All Other	< 80 ppm
Process	Proprietary	
Powder Size (typical)	D90 < 50 microns	
Theoretical Density	1.64 g/cm ³	
Application	Solid Electrolytes, Cathode in Lithium-Sulfur Batteries, Catalyst	
Packing	Vacuum-sealed in 1kg glass jars under N ₂ up to 5kgs. For quantities greater than 5kgs, we vacuum seal metallized bags under N ₂ in 5kg increments.	
Quality	Each lot of Li ₂ S comes with XRD, PSA, and ICP analyses. FTIR analysis available upon request.	

Contact Lorad

Contact our sales department at +1 (727) 826-5511 or send us an email at sales@loradchemical.com. You can also submit inquiries through our website at loradchemical.com.



25 kilograms of Lithium Sulfide in metallized bags.

Safety and Transportation

GHS Signal	Danger
GHS Pictograms	
Hazards	H301 Toxic if swallowed. H314 Causes severe skin burns and eye damage. H318 Causes serious eye damage.
Hazard Class	8 (6.1)
Packing Group	II
UN Number	UN 2923

Why Choose Lorad?

- Lorad Chemical specializes in the synthesis of complex inorganic oxides, sulfides, fluorides, and high purity salts.
- We employ a team of scientists and engineers that are experts in their fields, which allows us to work on customer's R&D and custom applications.
- We employ a certified quality management system to ensure the consistency and quality of all of our products.