

**Product:**

Lithium *iso*-Propoxide (LIP), powder

Synonym: Lithium *iso*-Propylate

Product No. 408116

Lithium *iso*-Propoxide

CAS-No. 2388-10-5      ELINCS-No. 424-140-0

**Application:**

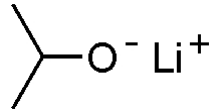
Deprotonation reactions in organic synthesis.

**Appearance:**

white powder

**Formula:**

$C_3H_7LiO$



**Physical Properties:**

Molecular weight: 66.03  
Bulk density: abt. 0.6 g/ccm  
Melting Point: > 280°C (decomposition)

Solubility: [% w/w at 20°C]  
Toluene: 24  
Hexane: 41  
MTBE: 36  
THF: 33  
Methylcyclohexane: 42  
Heptane: 42

**Specification:**

Lithium *iso*-Propoxide      min. 98 %  
LiOH + Li<sub>2</sub>CO<sub>3</sub>      max. 1.2 %\*)  
\*) calculated as LiOH

**Method of analysis:**

Acidimetric titration of the hydrolyzed product for the determination of the total base. Detailed description available on request. Determination of LiOH by Karl Fischer titration.

**Handling:**

Lithium *iso*-Propoxide should be handled under inert gas atmosphere. Avoid contact with eyes, skin and clothes as well as inhalation. Lithium *iso*-Propoxide decomposes in contact with humidity. Pay also attention to the Material Safety Data Sheet.

**Storage:**

Lithium *iso*-Propoxide should be stored in tightly closed containers under exclusion of humidity at gentle temperatures. Keep away from heat, sparks and fire. Pay also attention to the Material Safety Data Sheet.

**Transport Regulations:**

UN-No.:	2925		
Rail/Road (RID/ADR):	Class 4.1, II	Label 4.1 + 8	
Sea (IMDG-Code):	Class 4.1, II	Label 4.1 + 8	
Air (IATA-DGR):	Class 4.1, II	Pax 445 max. 15 kg	CAO 448 max. 50 kg
Mail:	forbidden		

**Marking:**

C	corrosive
F	highly flammable
R+S-phrases	see Material Safety Data Sheet

**Packing:**

Inner packing: Polyethylene bags up to 10 kg net.  
Outer Packing: 110 l open lid steel drums with 50 kg net.

**Time of delivery:**

On request.

**Further related documents:**

Alkoxides brochure, Material Safety Data Sheet.  
Trifold "Specialties for Deprotonation".