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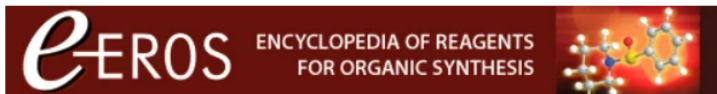
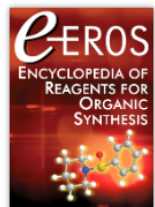
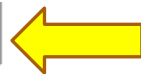
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About this reference work

e-EROS gives detailed information on more than 5,250 reagents and catalysts, and every year up to 200 new or updated articles are added in order to keep the Database up-to-date. All material published in *e-EROS* has been carefully selected, commissioned and edited by the *e-EROS* Editorial Board: André Charette, Jeffrey Bode, Tomislav Rovis, and Ryan Shenvi.

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Paul Knochel, Andrei Gavryushin

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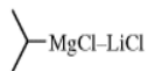


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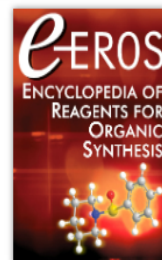


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Abstract

[807329-97-1] C₃H₇Cl₂LiMg (MW 145.24)InChI = [1S/C3H7.2ClH.Li.Mg/c1-3-2;;;;/h3H,1-2H3;2*1H;;/q;;;2*+1/p-2](#)InChIKey = [CWTUREABAILGIK-UHFFFAOYSA-L](#)

(reagent used in preparation of various organomagnesium compounds via halogen–magnesium exchange reactions)

Alternate Name: isopropylmagnesium chloride–lithium chloride complex.

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e-EROS Sample content

Lithium Dichloro(1-methylethyl)-magnesite

Physical Data: solution in THF, similar to the solvent.

Solubility: solution in THF miscible with the majority of organic solvents. The neat compound is insoluble in alkanes and soluble in coordinating solvents (ethers, amines, etc.)

Form Supplied in: THF solution (1.1–1.3 M).

Purification: not considered.

Handling, Storage, and Precautions: the solution of the reagent rapidly reacts with oxygen and water and should be stored and handled in an inert atmosphere. Vigorously reacts with water and aqueous solutions, evolving highly flammable gases. Due to its strong dehydrating ability, spills may cause serious damage to the skin and eyes. The commercial solution in THF is a flammable liquid.

Nobujiro Shimizu

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