



>>Entry Name: Chloro-2-propenylmagnesium, 9Cl

Synonym(s): 2-Propenylmagnesium chloride. Allylmagnesium chloride. Allylchloromagnesium

CAS Registry Number: 2622-05-1

Related CAS Registry Numbers(s): 119612-03-2

$\text{H}_2\text{C}=\text{CHCH}_2\text{MgCl}$

Molecular Formula: $\text{C}_3\text{H}_5\text{ClMg}$

Molecular Weight: 100.83

Accurate Mass: 99.993019

Percentage Composition: C 35.74%; H 5.00%; Cl 35.16%; Mg 24.10%

General Statement: Fluxional, with equilibrating classical struct. in soln.

Use/Importance: Commercially available Grignard reagent. Adds to imines

Physical Description: Solid

Solubility: Sol. Et_2O , THF

Aldrich: 22590-8

Fluka: 6021

>>Derivative: TMED complex

CAS Registry Number: 109013-41-4

Physical Description: Colourless cryst. (THF)

Other Data: Dimeric in solid phase

References:

- Whitesides, G.M. *et al.*, *Discuss. Faraday Soc.*, No. 34, 1962, 185, (*pmr*)
Org. Synth., *Coll. Vol.*, 4, 1963, 751, (*synth*)
Inorg. Synth., 1971, **13**, 73, (*synth*)
Sourisseau, C. *et al.*, *Spectrochim. Acta A*, 1975, **31**, 287, (*ir*)
Oppolzer, W. *et al.*, *Tet. Lett.*, 1982, **23**, 3901, (*synth*)
Marsch, M. *et al.*, *Angew. Chem., Int. Ed.*, 1987, **26**, 696, (*synth, deriv, cryst struct*)
Jennings, J.R., *J. Organomet. Chem.*, 1987, **325**, 25, (*synth*)
Harvey, S. *et al.*, *J.O.C.*, 1988, **53**, 3134, (*synth*)
Bogdanovic, B. *et al.*, *Chem. Ber.*, 1990, **123**, 1507, (*synth*)
Baker, K.V. *et al.*, *J.O.C.*, 1991, **56**, 698, (*synth*)
Hill, E.A. *et al.*, *J. Organomet. Chem.*, 1996, **514**, 1, (*cmr, soln struct*)