



>>Entry Name: Chloromethylmagnesium

Synonym(s): Methylmagnesium chloride

CAS Registry Number: 676-58-4

MeMgCl

Molecular Formula: CH₃ClMg

Molecular Weight: 74.792

Accurate Mass: 73.977369

Percentage Composition: C 16.06%; H 4.04%; Cl 47.40%; Mg 32.50%

Use/Importance: Grignard reagent, commercially available. Gives conjugate addn. to enones in presence of MnCl₂

Solubility: Insol. hydrocarbons

Other Data: Etherates stable, but disproportionation occurs on desolvation

Aldrich: 18990-1

Fluka: 67743

References:

Kharasch, M.S. *et al.*, *Grignard Reactions of Nonmetallic Substances*, Prentice Hall, 1954, (rev)

Org. Synth., Coll. Vol., 3, 1955, 696, (synth, reaction)

Compr. Organomet. Chem., Pergamon, 1982, **1**, 156; **7**, 1, (rev)

Sakai, S. *et al.*, *J.A.C.S.*, 1982, **104**, 4019, (ir, theory)