



>>Entry Name: Chloroisopropylmagnesium, 8Cl

ENTRY UNDER REVIEW

Synonym(s): Chloro(1-methylethyl)magnesium, 9Cl. Isopropylmagnesium chloride. 1-Methylethylmagnesium chloride

CAS Registry Number: 1068-55-9

Me₂CHMgCl

Molecular Formula: C₃H₇ClMg

Molecular Weight: 102.846

Accurate Mass: 102.008669

Percentage Composition: C 35.04%; H 6.86%; Cl 34.47%; Mg 23.63%

General Statement: Mainly dimeric in Et₂O

Use/Importance: Commercially available Grignard reagent. Reacts with RCOCl to give ketone, in presence of Fe(acac)₃

Solubility: Sol. THF, Et₂O

Aldrich: 22438-3

Fluka: 59572

References:

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

Org. Synth., Coll. Vol., 5, 1973, 211, (synth, reaction)

Martin, G.J. *et al.*, *J. Organomet. Chem.*, 1974, **67**, 327, (reactions)

Wasylishen, R.E. *et al.*, *Org. Magn. Reson.*, 1977, **9**, 473, (cmr)

Ashby, E.C., *Pure Appl. Chem.*, 1980, **52**, 545, (rev)

Ashby, E.C. *et al.*, *J.A.C.S.*, 1981, **103**, 4983, (reactions)

Helmchen, G. *et al.*, *Tet. Lett.*, 1985, **26**, 6047, (reaction)