



>>Entry Name: Dibutylmagnesium, 10Cl, 9Cl, 8Cl

Synonym(s): Magnesium dibutyl

CAS Registry Number: 1191-47-5

$(\text{H}_3\text{CCH}_2\text{CH}_2\text{CH}_2)_2\text{Mg}$

Molecular Formula: $\text{C}_8\text{H}_{18}\text{Mg}$

Molecular Weight: 138.535

Accurate Mass: 138.125892

Percentage Composition: C 69.36%; H 13.10%; Mg 17.54%

Source/Synthesis: Synth. by various methods, including dioxan precipitation from BuMgCl and from BuMgCl with BuLi

Use/Importance: Commercially available. Component of polym. catalysts

Physical Description: Solid

Solubility: Sol. hydrocarbons depends on method of prepn.

Fluka: 34767

References:

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

Strohmeier, W. *et al.*, *Chem. Ber.*, 1961, **94**, 2356, (synth)

Gitlitz, M.H. *et al.*, *J. Organomet. Chem.*, 1970, **23**, 291, (synth)

Smith, W.N., *J. Organomet. Chem.*, 1974, **64**, 25, (synth)

Mudry, W.L. *et al.*, *J. Fire Flammability*, 1975, 478, (haz)

Bogdanovič, B. *et al.*, *Angew. Chem., Int. Ed.*, 1982, **21**, 199, (synth)

Compr. Organomet. Chem., Pergamon, 1982, **1**, 198, (rev)

Lühder, K. *et al.*, *J. Prakt. Chem.*, 1983, **325**, 1027, (synth)

Screttas, C.G. *et al.*, *J. Organomet. Chem.*, 1986, **317**, 137, (synth, reactions)

Saheki, Y. *et al.*, *Chem. Lett.*, 1987, 2299, (synth)