



>>Entry Name: Benzylbromomagnesium, 8Cl

ENTRY UNDER REVIEW

Synonym(s): Benzylmagnesium bromide. Bromo(phenylmethyl)magnesium, 11Cl, 9Cl

CAS Registry Number: 1589-82-8

Related CAS Registry Numbers(s): 119703-57-0 119703-58-1

PhCH₂MgBr

Molecular Formula: C₇H₇BrMg

Molecular Weight: 195.341

Accurate Mass: 193.978153

Percentage Composition: C 43.04%; H 3.61%; Br 40.90%; Mg 12.44%

Source/Synthesis: 8119703-58-1

Use/Importance: Grignard reagent. Couples with aryl halides in presence of Pd(0)

Physical Description: Not isol.

Solubility: Sol. ethers

References:

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

Reavers, A.J.M. *et al.*, *Tetrahedron*, 1970, **26**, 2683, (synth, reactions)

Holm, T., *J. Organomet. Chem.*, 1973, **56**, 87, (thermodyn)

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

Holm, T., *J.C.S. Perkin 2*, 1981, 464, (thermodyn)

Bartoli, G. *et al.*, *Synthesis*, 1981, 570, (reactions)

Harvey, S. *et al.*, *J.O.C.*, 1988, **53**, 3134, (synth, reactions)

Guggisberg, Y. *et al.*, *J. Organomet. Chem.*, 1991, **415**, 1, (alternative synth, reaction)