



>>Entry Name: Tetrabenzylzirconium

Synonym(s): Tetrakis(phenylmethyl)zirconium, 9CI. Zirconium tetrabenzyl

CAS Registry Number: 24356-01-2



Molecular Formula: $\text{C}_{28}\text{H}_{28}\text{Zr}$

Molecular Weight: 455.753

Accurate Mass: 454.123803

Percentage Composition: C 73.79%; H 6.19%; Zr 20.02%

Source/Synthesis: Synth. from ZrCl_4 and PhCH_2MgCl in Et_2O

Use/Importance: Olefin polym. catalyst and isom. catalyst

Physical Description: Light-sensitive yellow cryst. (hydrocarbons)

Melting Point: Mp 133-134°

References:

- Zucchini, U. *et al.*, *Chem. Comm.*, 1969, 1174, (*synth, nmr, use*)
Davies, G.R. *et al.*, *Chem. Comm.*, 1971, 677; 1511, (*cryst struct*)
Zucchini, U. *et al.*, *J. Organomet. Chem.*, 1971, **26**, 357, (*synth, nmr*)
Felten, J.J. *et al.*, *J. Organomet. Chem.*, 1972, **36**, 87, (*derivs*)
Clarke, J.F. *et al.*, *J. Organomet. Chem.*, 1974, **74**, 417, (*derivs*)
Lappert, M.F. *et al.*, *Chem. Comm.*, 1975, 830
Sobota, P. *et al.*, *J. Organomet. Chem.*, 1986, **316**, 19, (*synth*)
Scholz, J. *et al.*, *Chem. Ber.*, 1987, **120**, 1369, (*pmr, cmr*)