

Synthesis and Reactions of Ferrocenyl-capped Long-chain Alkynes

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Dedicated to Professor Gerhard Maas on the occasion of his 60th birthday

Alkyl-substituted acetylenes and diacetylenes with terminal ferrocenyl groups were synthesised starting from ferrocene. The reactivity of the triple bonds in the resulting compounds was used to prepare cobalt-alkyne complexes. Cyclotrimerisation of the monoacetylene resulted in a hexa-substituted benzene derivative with six pending ferrocenyl groups.

Key words: Ferrocene, Diacetylene, Alkyne-Cobalt Complex, Hexa-substituted Benzene