

S-S cleavage in disulphides by the fragment CpFe(dppe)^+

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The reaction of CpFe(dppe)I with disulphides S_2R_2 $\text{R} = \text{CH}_3, \text{C}_3\text{H}_7, \text{CH}_2\text{-C}_6\text{H}_5, \text{C}_6\text{H}_5$ in presence of NH_4PF_6 afford the unexpectedly oxidized thiolate complexes $[\text{CpFe(dppe)SR}]\text{PF}_6$ instead the expected disulphide complexes. The paramagnetic 17 π complexes were characterized by elemental analysis, IR, UV, visible spectral data as well as magnetic methods.