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Two Different Pathways in the Reduction of [(S=)PCI(µ-NtBu)]2 with Na
Bawari, D. (/jspui/browse?type=author&value=Bawari%2C+D.)
Prashanth, B. (/jspui/browse?type=author&value=Prashanth%2C+B.)
Ravi, S. (/jspui/browse?type=author&value=Ravi%2C+S.)
Shamasundar, K.R. (/jspui/browse?type=author&value=Shamasundar%2C+K.R.)
Singh, Sanjay (/jspui/browse?type=author&value=Singh%2C+Sanjay)
Biradicaloids
Cyclization
Phosphazanes
Reduction
2016
Wiley-VCH Verlag
Chemistry - A European Journal, 22(34), pp. 12027-12033
Reduction of the cyclodiphosphazane [(S=)CIP(μ-NtBu)]2 (1) with sodium metal in refluxing toluene proceeds via two different pathways. One is a Wurtz-type pathway involving elimination of
NaCl from 1 followed by head-to-tail cyclization to give the hexameric macrocycle [(μ-S)P(μ-
NtBu)2P(=S)]6 (2). The other pathway involves reduction of the P=S bonds of 1 to generate
colorless singlet biradicaloid dianion trans-[S-P(CI)(μ-NtBu)]22-, which is observed in the
polymeric structures of three-dimensional [{(S-)CIP(μ-NtBu)2PCI(S)}Na(Na·THF2)]n (3) and two
dimensional [{(S-)ClP(μ -NtBu)2PCl(S)} (Na·THF)2]n (4).
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(https://chemistry-europe.onlinelibrary.wiley.com/doi/full/10.1002/chem.201600839)

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