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Temperature Initiated P-Polymerization in Solid [Cd<sub>3</sub>Cu]CuP<sub>10</sub>. —

Heat treatment of solid  $[Cd_3Cu]CuP_{10}$  in evacuated silica ampules at 500 °C for 4 d leads to the formation of  $Cd_1SCu_1OP_{46}$ , which contains  $[P_6]$  rings and tubular  $[P_{26}]$  polymer units. A structure redetermination of  $[Cd_3Cu]CuP_{10}$  by single crystal XRD shows that this compound crystallizes in the cubic space group F43m with Z=4.  $Cd_1SCu_1OP_{46}$  crystallizes in the monoclinic space group C2 with Z=4. The polymerization and decomposition mechanism of  $[Cd_3Cu]CuP_{10}$  is analyzed by thermogravimetry and powder XRD. — (BAWOHL, M.; SCHMIDT\*, P.; NILGES, T.; Inorg. Chem. 52 (2013) 20, 11895-11901, http://dx.doi.org/10.1021/ic401508n ; Fac. Sci., BTU Cottbus-Senftenberg, D-01968 Senftenberg, Germany; Eng.) — W. Pewestorf