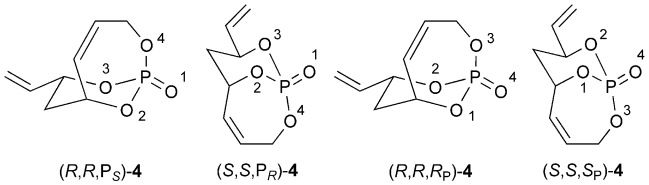
DOI: 10.1002/ejoc.201000265

Divalent and Multivalent Activation in Phosphate Triesters: A Versatile Method for the Synthesis of Advanced Polyol Synthons

Christopher D. Thomas,[a] James P. McParland,[a] and Paul R. Hanson*[a]

Keywords: Phosphate / Tether / Metathesis / Cuprates / Protecting groups

We previously[1] *assigned the stereochemical descriptors at the phosphorus atom in the bicyclic phosphates (*R,R,P_S*)-**4** and (*S,S,P_R*)-**4** as (*P_S*) and (*P_R*), respectively. However, the staff at Chemical Abstracts Service kindly noted that Cahn–Ingold–Prelog priority rules dictate that "Contributions by d-orbitals to bonds of quadriligant atoms are neglected", and hence, the P=O group in **4** should be treated as a P–O group with assignment of least priority.*[2] *Therefore, the correct assignments should be (*R,R,R_P*)-**4** and (*S,S,S_P*)-**4** as noted below.*



The Authors

[1] C. D. Thomas, J. P. McParland, P. R. Hanson, *Eur. J. Org. Chem.* **2009**, 5487–5500.
[2] See p. 391 in: R. S. Cahn, C. Ingold, V. Prelog, *Angew. Chem. Int. Ed. Engl.* **1966**, *5*, 385–415.

Received: February 26, 2010
Published Online: April 21, 2010

[a] Department of Chemistry, University of Kansas,
1251 Wescoe Hall Drive, Malott Hall, Lawrence, KS 66045, USA
Fax: +1-785-864-5396
E-mail: phanson@ku.edu