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Synthesis and steric structure of 3',3',5'-trimethyl-7',7'-bis(trifluoromethyl)spiro[1,3,2-benzodioxaphosphole-2,1'-[2,6,8]trioxa[1 λ ⁵]phosphabicyclo[3.2.1]octane] and 3',5'-dimethyl-7',7'-bis(trifluoromethyl)spiro[1,3,2-benzodioxaphosphole-2,1'-[2,6,8]trioxa[1 λ ⁵]phosphabicyclo[3.2.1]oct[3]ene]

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Abstract

© 2015 Pleiades Publishing, Ltd. Reactions of hexafluoroacetone with 4-(1,3,2-benzodioxaphosphol-2-yloxy)-4-methylpentan-2-one and 4-(1,3,2-benzodioxaphospho-2-yloxy)pent-3-en-2-one afforded cage spiro phosphoranes with a phosphorus-carbon bond, 3',3',5'-trimethyl-7',7'-bis(trifluoromethyl)spiro[1,3,2-benzodioxaphosphole-2,1'-[2,6,8]-trioxa[1 λ ⁵]phosphabicyclo[3.2.1]octane] and 3',5'-dimethyl-7',7'-bis(trifluoromethyl)spiro[1,3,2-benzodioxaphosphole-2,1'-[2,6,8]trioxa[1 λ ⁵]phosphabicyclo[3.2.1]oct[3]ene], whose structure was determined by X-ray analysis.

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