Ligand H

(2R,4R)-di[2,2'-(3,3'-di-amyl-5,5'-dimethoxy-1,1'-biphenyl)
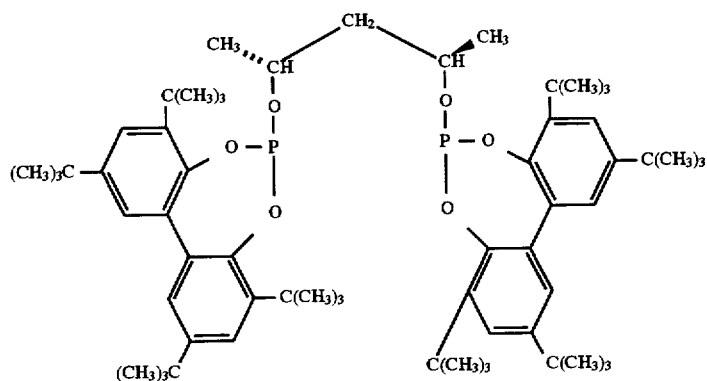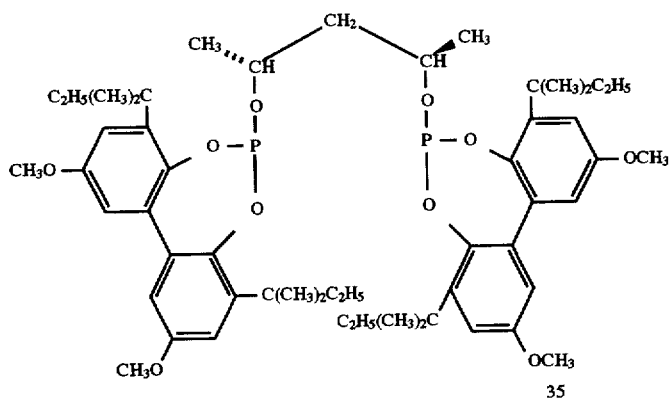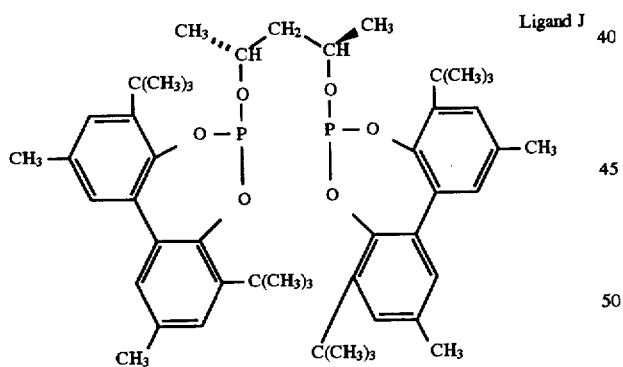]-2,4-pentyldiphosphite having the formula:

Ligand I

(2R,4R)-di[2,2'-(3,3'-di-tert-butyl-5,5'-dimethyl-1,1'-
biphenyl)]-2,4-pentyldiphosphite having the formula:

Ligand J

(2R,4R)-di[2,2'-(3,3'-di-tert-butyl-5,5'-diethoxy-1,1'-
biphenyl)]-2,4-pentyldiphosphite having the formula: