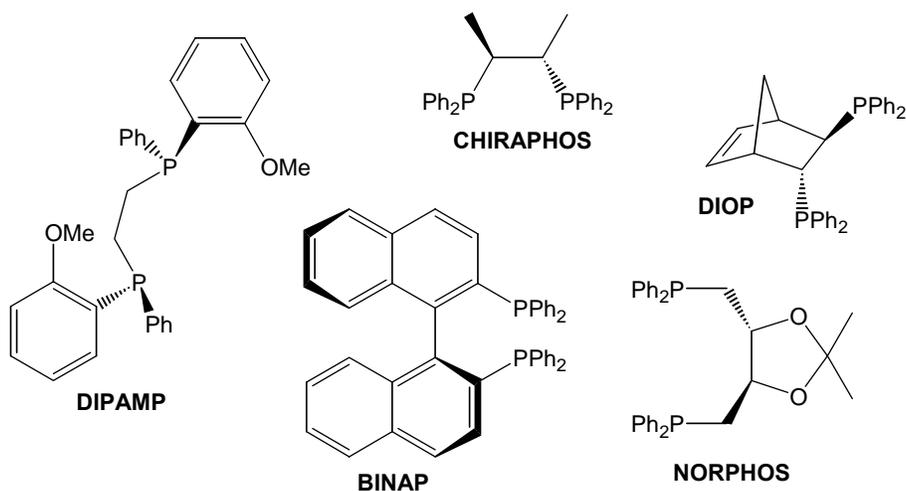


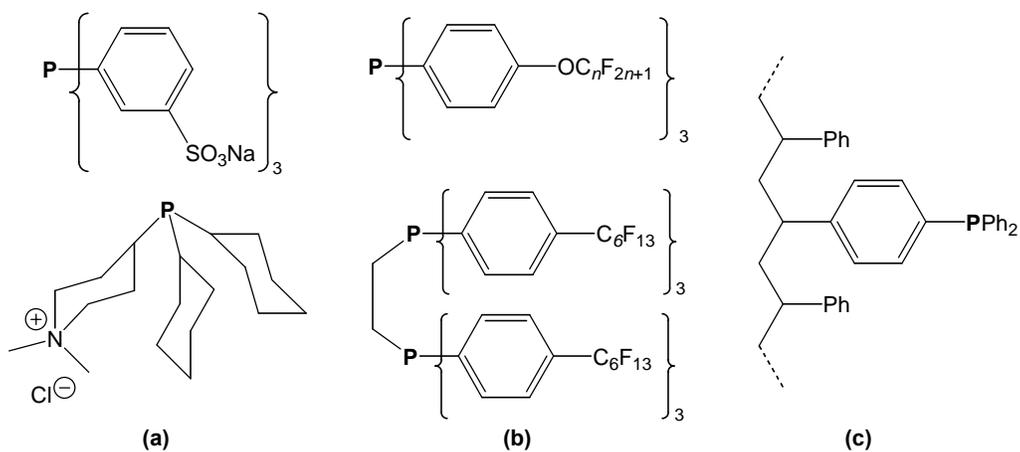
(a)

(b)

(a) space filling diagram of an **M-PPh₃** unit; the phenyl groups adopt a “paddle-wheel” arrangement; (b) schematic representation of the measurement of θ , the **Tolman cone angle**, for a **PR₃** ligand. Each sphere represents the spatial extent of an R group.



Selected **chiral** phosphines



(a) hydrophilic, (b) fluorophasic and (c) polymer-supported phosphines