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## Phosphorus, Sulfur, and Silicon and the Related Elements

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## New Functionalised Phosphorus (III) Ligands

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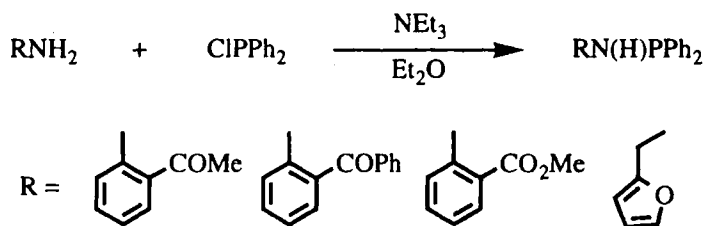
## New Functionalised Phosphorus(III) Ligands

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Whereas the number of functionalised tertiary phosphines, and to a lesser extent phosphites, has flourished in recent years, related systems bearing one (or more) P-N bonds are poorly developed. Here we describe a facile synthetic route to some new, potentially hemilabile, P,O-hybrids. These ligands are of particular interest for use in catalysis[1] and also as suitable precursors for further functionalisation.

The general procedure employed is illustrated below and the structures of all new ligands elucidated by a combination of NMR spectroscopy and X-ray crystallography[2]. This simple strategy offers great promise to a diverse spectrum of other functionalised ligand systems and is currently being exploited.



### References

- [1] A. Nader and E. Lindner, *Coord. Chem. Rev.*, 1991, **108**, 27.
- [2] K.G. Gaw, A.M.Z. Slawin and M.B. Smith, Manuscript in preparation.