## Supplementary Material to: Structure-directing weak phosphoryl $XH \cdot \cdot \cdot O=P(X=C, N)$ hydrogen bonds in cyclic oxazaphospholidines and oxazaphosphinanes

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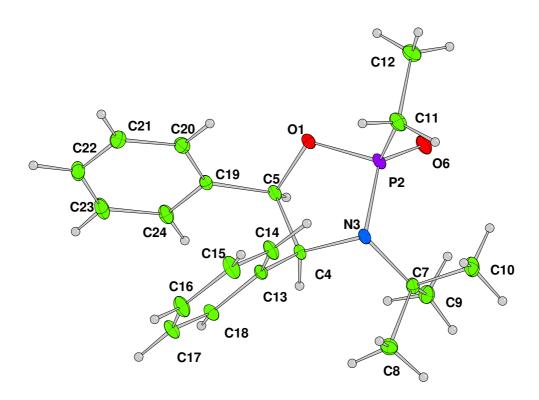


FIG. sup-i-A molecule of (I) showing the atom-labelling scheme. Displacement ellipsoids are drawn at the 30% probability level. Hydrogen spheres are drawn with an arbitrary radius.

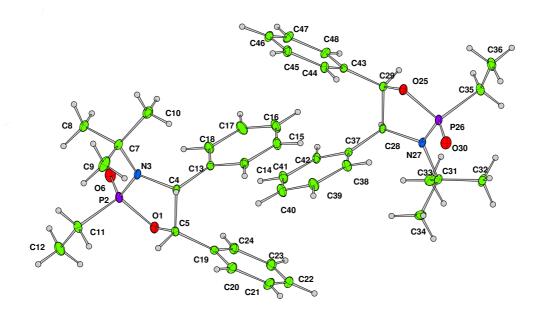


FIG. sup-ii – Two molecules of (II),  $Z^\prime=2$ , showing the atom-labelling scheme. Displacement ellipsoids are drawn at the 30% probability level. Hydrogen spheres are drawn with an arbitrary radius.

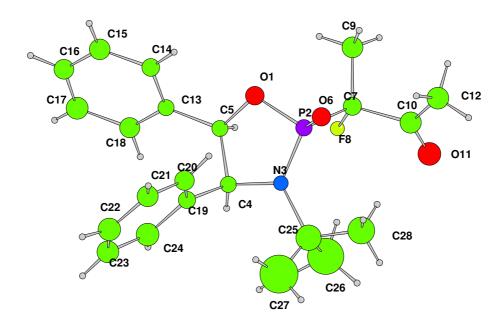


FIG. sup-iii – A molecule of (III) showing the atom-labelling scheme. Non-hydrogen atoms are represented by displacement spheres at the 30% probability level. Hydrogen spheres are drawn with an arbitrary radius.

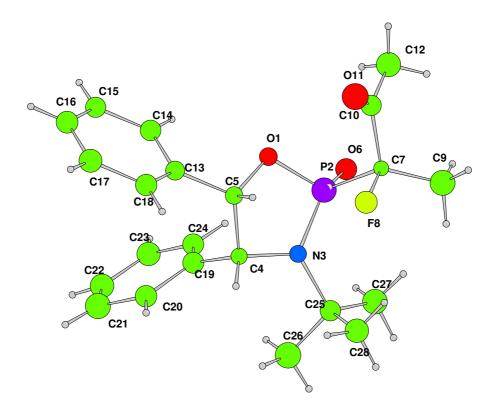


FIG. sup-iv – A molecule of (IV) showing the atom-labelling scheme. Non-hydrogen atoms are represented by displacement spheres at the 30% probability level. Hydrogen spheres are drawn with an arbitrary radius.

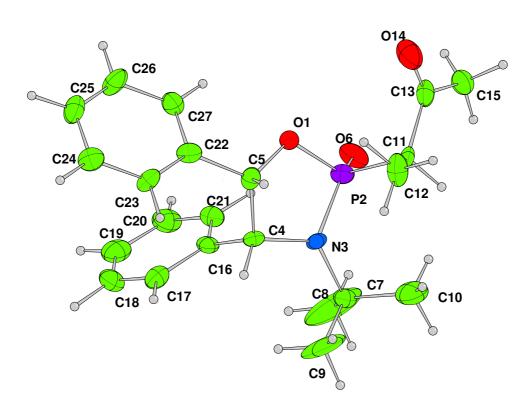


FIG. sup-v-A molecule of (V) showing the atom-labelling scheme. Displacement ellipsoids are drawn at the 30% probability level. Hydrogen spheres are drawn with an arbitrary radius.

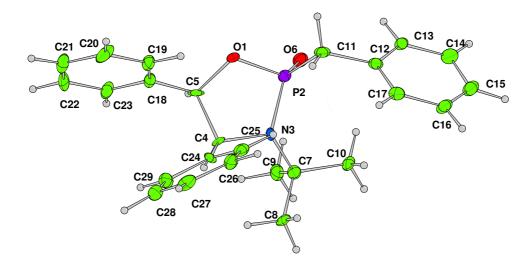


FIG. sup-vi – A molecule of (VI) showing the atom-labelling scheme. Displacement ellipsoids are drawn at the 30% probability level. Hydrogen spheres are drawn with an arbitrary radius.

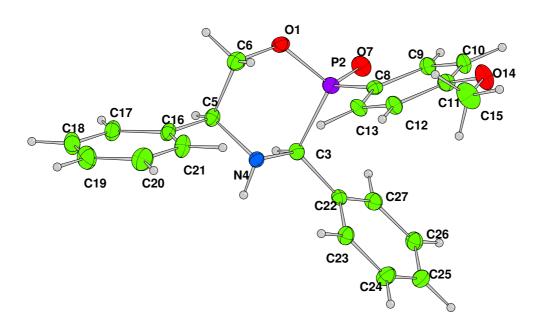


FIG. sup-vii – A molecule of (VII) showing the atom-labelling scheme. Displacement ellipsoids are drawn at the 30% probability level. Hydrogen spheres are drawn with an arbitrary radius.

FIG. sup-viii – A molecule of (VIII) showing the atom-labelling scheme. Non-hydrogen atoms are represented by displacement spheres at the 30% probability level. Hydrogen spheres are drawn with an arbitrary radius.

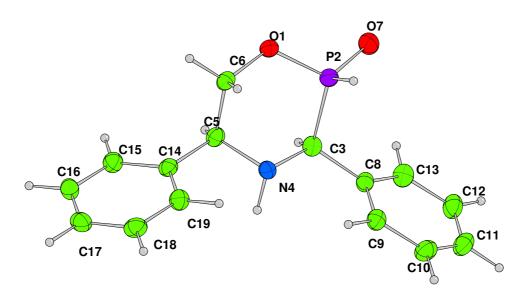


FIG. sup-ix - A molecule of (IX) showing the atom-labelling scheme. Displacement ellipsoids are drawn at the 30% probability level. Hydrogen spheres are drawn with an arbitrary radius.