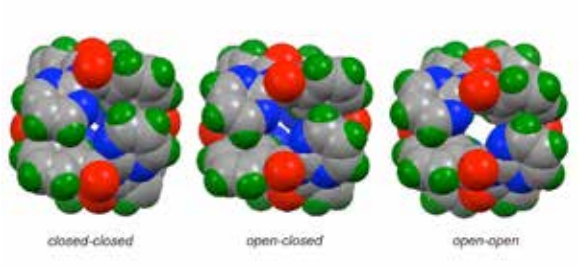
[MS25-P14] Imidebased Trezimide and Tennimide Macrocycles.

John F. Gallagher, Pavle Mocilac

School of Chemical Sciences, Dublin City University, Dublin 9, Ireland.
Email: john.gallagher@dcu.ie

Reaction of isophthaloyl dichloride with 2aminopyridines or 2aminopyrimidines yields trimeric (trezimide) and tetrameric (tennimide) macrocycles in modest yields, together with oligomers and polymeric materials.[12] The [4+4] macrocyclisation proceeds via amide condensation followed by imide hinge formation and finally [3+3] and [4+4] ring closure (the latter described by Evans and Gale in 2004).[3] The 2aminopyridine/pyrimidines favour macrocycle formation on electronic and steric grounds. The three $(26IO)_3$ conformations are depicted below.



[1] Mocilac, P., Gallagher, J.F. (2013). *J. Org. Chem*. **78**, 23552361.
[2] Mocilac, P., Gallagher, J.F. (2013). *Acta Cryst*. **B69**, 62 69.
[3] Evans, L.S., Gale, P. (2004). *Chem. Commun.* 12861287.

Keywords: macrocycle; imide; heteroaromatic