Supporting Information

Vapour Phase Assembly of a Halogen Bonded Complex of an Isoindoline Nitroxide and 1,2-Diiodotetrafluorobenzene

Karl J. P. Davy, John McMurtrie, Llew Rintoul, Paul V. Bernhardt and Aaron S. Micallef

Australian Institute for Bioengineering and Nanotechnology, University of Queensland, Brisbane, Queensland 4072, Australia. Fax: (+61) (0)7 3346 3973; Tel: (+61) (0)7 3346 3864; E-mail: karl.davy@uqconnect.edu.au; a.micallef1@uq.edu.au

School of Chemistry and Molecular Biosciences, University of Queensland, Brisbane, Queensland 4072, Australia. Fax: (+61) (0)7 3365 4273; Tel: (+61) (0)7 3365 4266; E-mail: p.bernhardt@uq.edu.au

Chemistry, Queensland University of Technology, Brisbane, Queensland 4001, Australia. Fax: (+61) (0)7 3138 1804; Tel: (+61) (0)7 3138 1220; E-mail: j.mcmurtrie@qut.edu.au; l.rintoul@qut.edu.au

Figure S1. The IR spectra (ATR; diamond cell) of crystalline TMIO (a; black), 1,2-DITFB (b; blue) and (TMIO)₂(1,2-DITFB)₂ co-crystal (c; red).
Figure S2. Illustration of electron density in the (TMIO)$_2$(1,2-DITFB)$_2$ SOMOs. The lowest energy SOMO is on the left.