ESI for

Hydrothermal synthesis of Group 13 metal trifluoride complexes with neutral N-donor ligands

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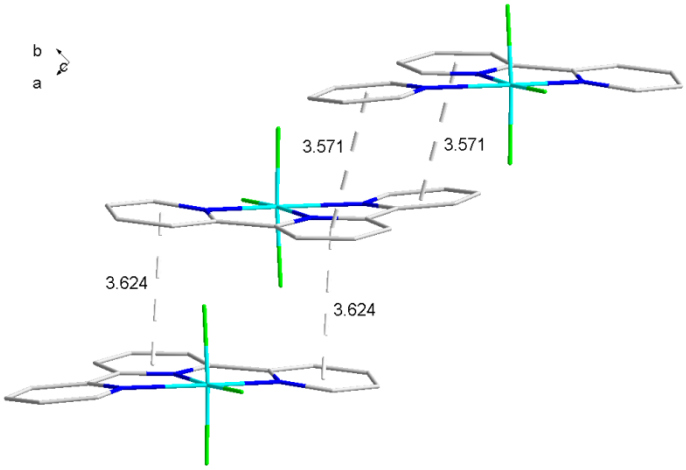

Figure S1. View of $[GaF_3(terpy)]\cdot 3H_2O$ showing the π-stacking (with water molecules omitted).

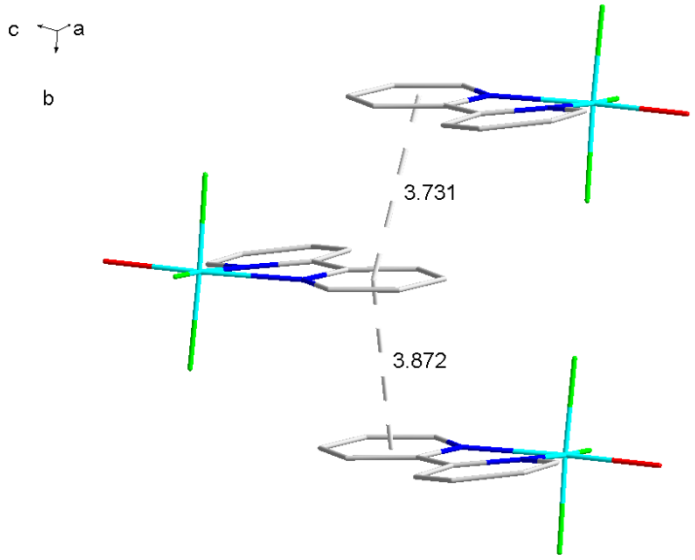

Figure S2. View showing the π-stacking (lattice H_2O omitted for clarity) present in the structure of $[GaF_3(bipy)(OH_2)]\cdot 2H_2O$

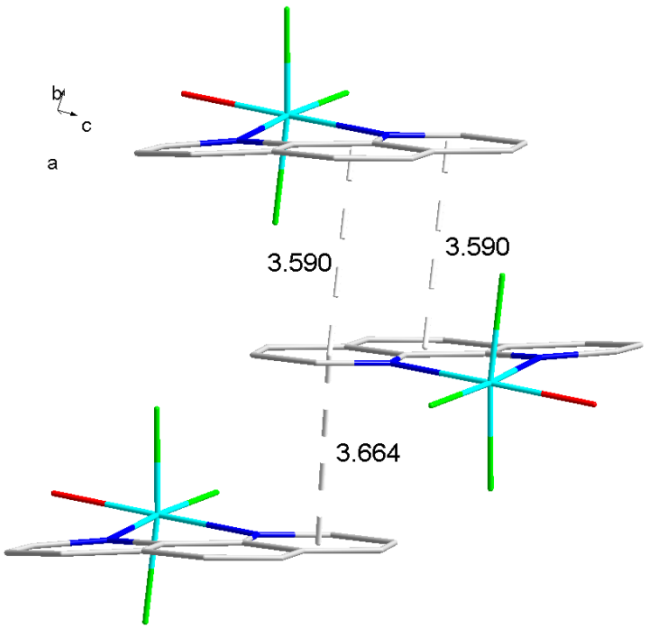

Figure S3. View showing the π-stacking present in the structure of $[GaF_3(phen)(OH_2)]$.

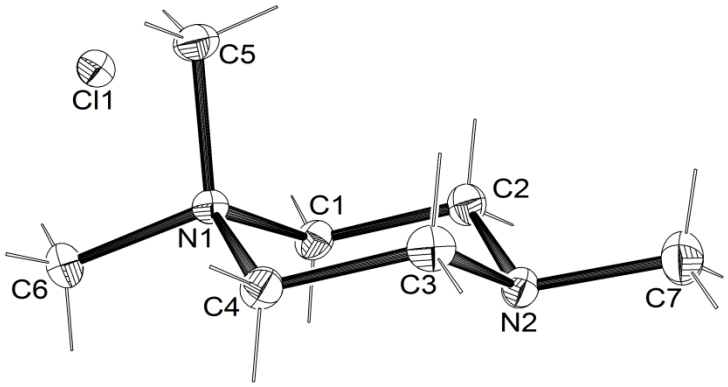

Figure S4 View of the structure of $[\subset Me_2N(CH_2)_2NMe(CH_2)_2]Cl$.

Table S1 X-Ray crystallographic data for $[\subset Me_2N(CH_2)_2NMe(CH_2)_2]Cl$[a]

Compound	$[\subset Me_2N(CH_2)_2NMe(CH_2)H_2]Cl$
Formula	$C_7H_{17}ClN_2$
M	164.8
Crystal system	orthorhombic
Space group (no.)	$P2_12_12_1$
a /Å	8.3293(6)
b /Å	10.3564(7)
c /Å	10.3564(7)
α /°	90
β /°	90
γ /°	90
U /Å^3	893.36(11)
Z	4
μ(Mo-K$_\alpha$) /mm^{-1}	0.362
F(000)	360.0
Total number reflections	8132
R_{int}	0.064
Unique reflections	2024
No. of parameters, restraints	94, 0
R_1, wR_2 [$I > 2\sigma(I)$] [b]	0.036, 0.075
R_1, wR_2 (all data)	0.045, 0.079

[a] Common items: T = 100 K; wavelength (Mo-Kα) = 0.71073 Å; θ(max) = 27.5°; [b] $R_1 = \Sigma||F\sigma| - |Fc|| / \Sigma|Fo|$; $wR_2 = [\Sigma w(Fo^2 - Fc^2)^2 / \Sigma wFo^2]^{1/2}$.