**Electronic Supplementary Information**

Structural insight into the anion-water cluster: Stabilized by alcohol and carboxylic acid containing tripodal ligand

Md. Najbul Hoque, Arghya Basu and Gopal Das\*

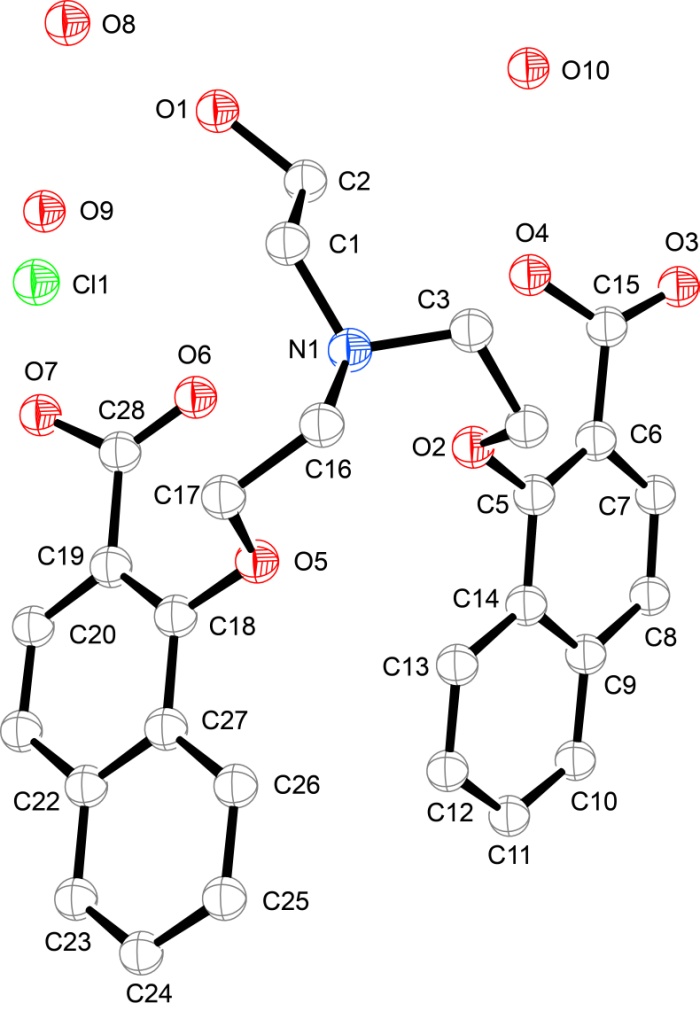
*Department of Chemistry, Indian Institute of Technology Guwahati,*

*Assam-781039, India.*

Email: gdas@iitg.ernet.in

ortep.tif

**Figure S1.** ORTEP diagram of the complex **[LNa2•6H2O]** (30% probability for thermal ellipsoid) with atom labelling scheme (H-atoms omitted for clarity).



**Figure S2.** ORTEP diagram of the complex **[LH3•Cl•3H2O]** (30% probability for thermal ellipsoid) with atom labelling scheme (H-atoms omitted for clarity).

**orterp-HBr.tif**

**Figure S3.** ORTEP diagram of the complex **[LH3•Br•2H2O]** (30% probability for thermal ellipsoid) with atom labelling scheme (H-atoms omitted for clarity).

**ortep.tif**

**Figure S4.** ORTEP diagram of the complex **[LH3•NO3•2H2O]** (30% probability for thermal ellipsoid) with atom labelling scheme (H-atoms omitted for clarity).

**ortep-HClO4.tif**

**Figure S5.** ORTEP diagram of the complex **[LH3•ClO4•MeOH]** (30% probability for thermal ellipsoid) with atom labelling scheme (H-atoms omitted for clarity).

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**Figure S6.** 1H-NMR (400 MHz) spectra of 1-Hydroxy-naphthalene-2-carboxylic acid methylester **II** in CDCl3 at 298 K.



**Figure S7.** 13C-NMR (100 MHz) spectra of 1-Hydroxy-naphthalene-2-carboxylic acid methylester **II** in CDCl3 at 298 K.

ester.tif

**Figure S8.** 1H-NMR(400 MHz) spectra of tripodal ester **III** in CDCl3 at 298 K.



**Figure S9.** 13C-NMR (100 MHz) spectra of tripodal ester **III** in CDCl3 at 298 K.

na-final.tif

**Figure S10.** 1H-NMR(400 MHz) spectra of **[LNa2•6H2O]** in D2O at 298 K.



**Figure S11.** 1H-NMR(400 MHz) spectra of **[LH3•Cl•3H2O]** in CDCl3 at 298 K.



**Figure S12.** 13C-NMR(100 MHz) spectra of **[LH3•Cl•3H2O]** in CDCl3 at 298 K.

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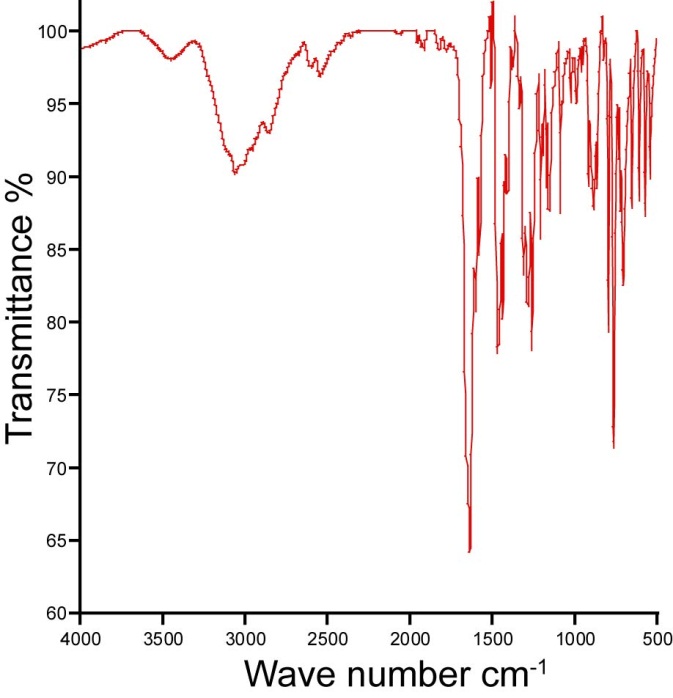
**Figure S13.** 1H-NMR(400 MHz) spectra of **[LH3•Br•2H2O]** in CDCl3at 298 K.



**Figure S14.** 1H-NMR(400 MHz) spectra of **[LH3•NO3•2H2O]** in *d6*-DMSO at 298 K.



**Figure S15.** 1H-NMR(400 MHz) spectra of **[LH3•ClO4•MeOH]** in *d6*-DMSO at 298 K.



**Figure S16.** FT-IR spectra of 1-Hydroxy-naphthalene-2-carboxylic acid methylester **II** (KBr pellet).

NAPH-ME-ESTER-TRIPODAL.tif

**Figure S17.** FT-IR spectra of tripodal ester **III** (KBr pellet).

12NAPH-NaCl.tif

**Figure S18.** FT-IR spectra of **[LNa2•6H2O]** (KBr pellet).

IR-HCl....tif

**Figure S19.** FT-IR spectra of **[LH3•Cl•3H2O]** (KBr pellet).

IR-HBr.tif

**Figure S20.** FT-IR spectra of **[LH3•Br•2H2O]** (KBr pellet).



**Figure S21.** FT-IR spectra of **[LH3•NO3•2H2O]** (KBr pellet).

IR-HClO4.tif

**Figure S22.** FT-IR spectra of **[LH3•ClO4•MeOH]** (KBr pellet).