Electronic Supplementary Information (ESI) for CrystEngComm

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List of figures (Supplementary data)

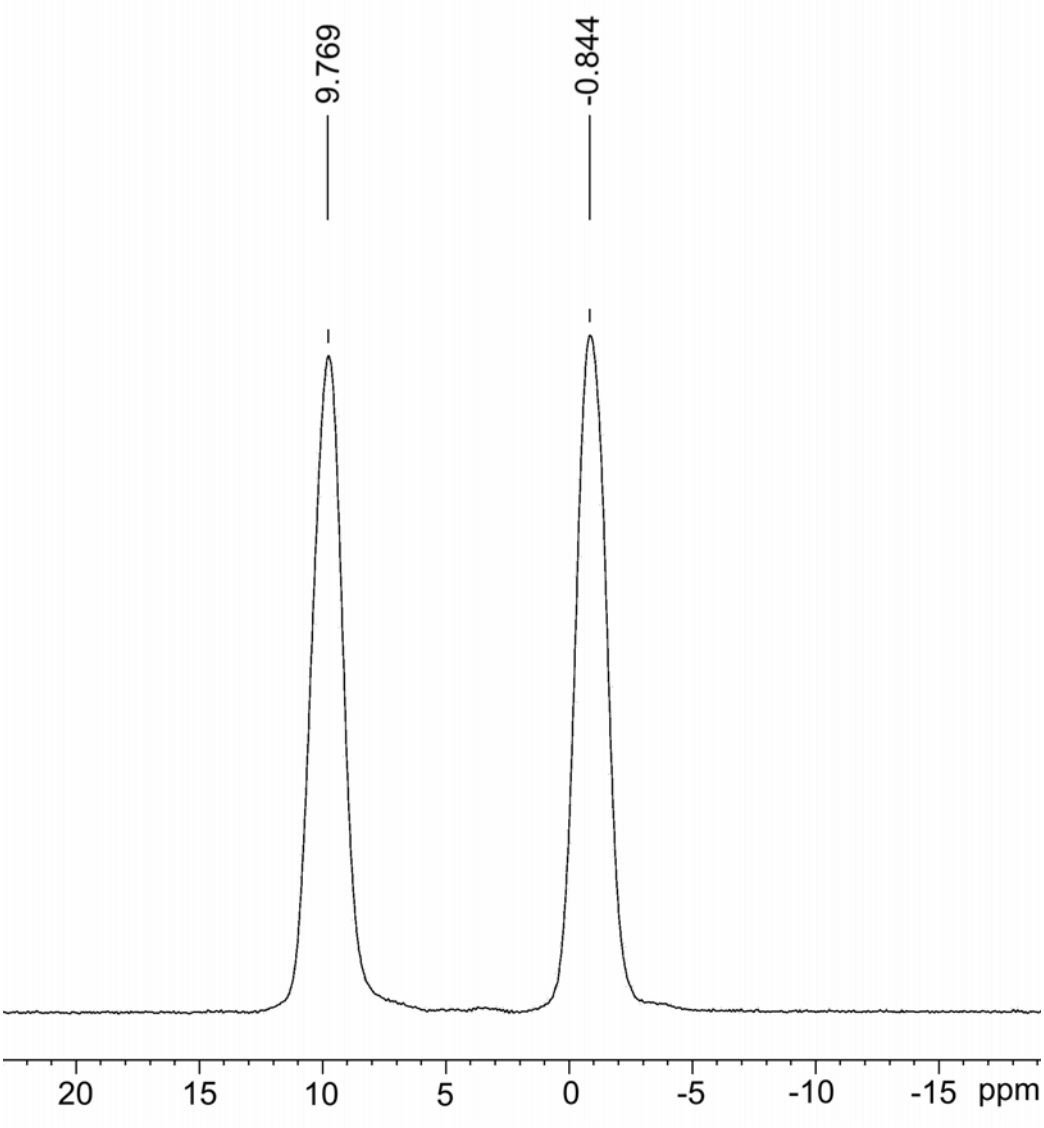

Figure S1: ^{31}P-CP/MAS NMR spectrum of $[Mg(CH_3PO_3CCl_2PO_2NC_4H_8O)(H_2O)_3]_n$ (**1**).

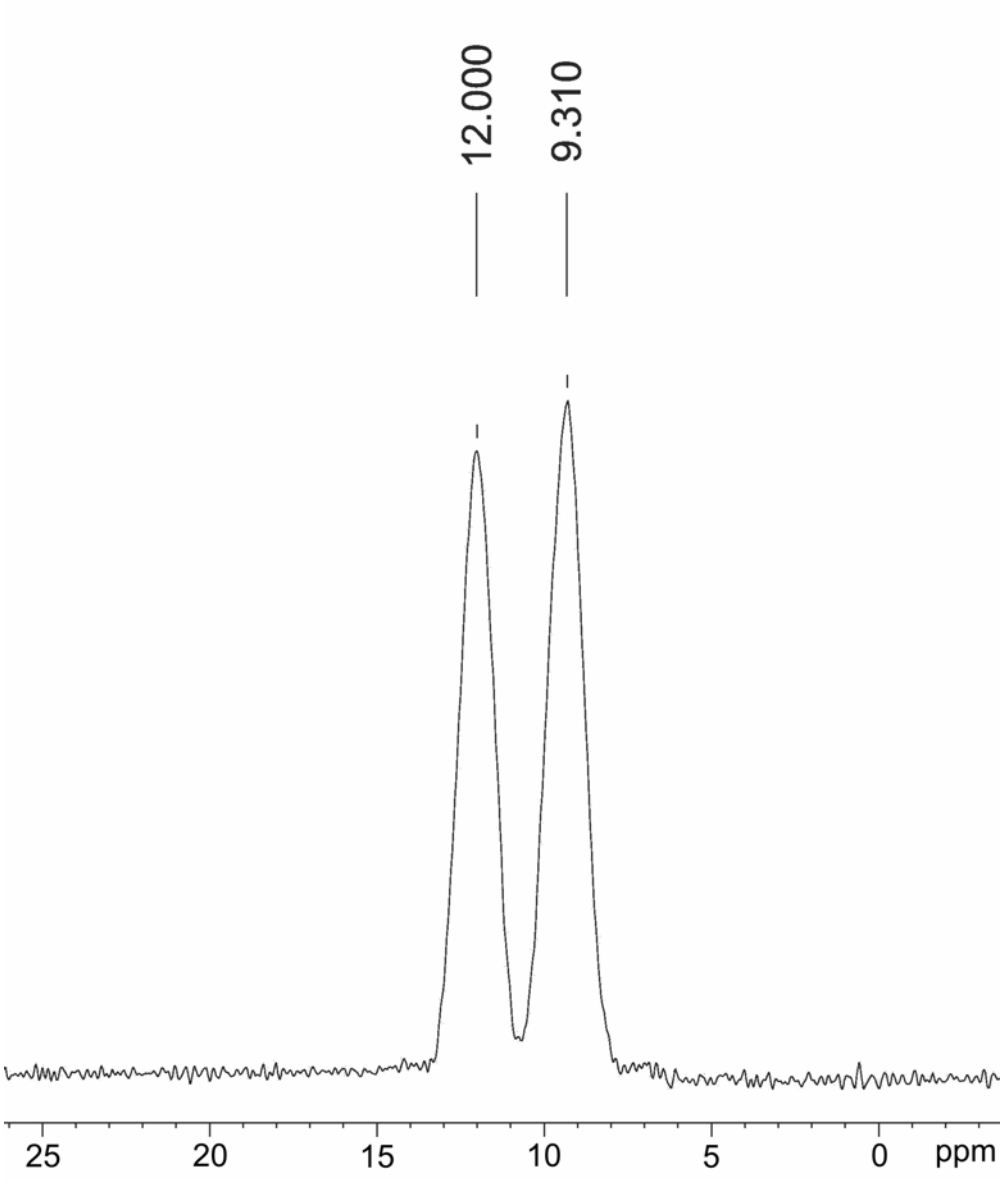

Figure S2: ^{31}P-CP/MAS NMR spectrum of $[Ba(CH_3PO_3CCl_2PO_2NC_4H_8O)(H_2O)_2]_n$ (**2**).

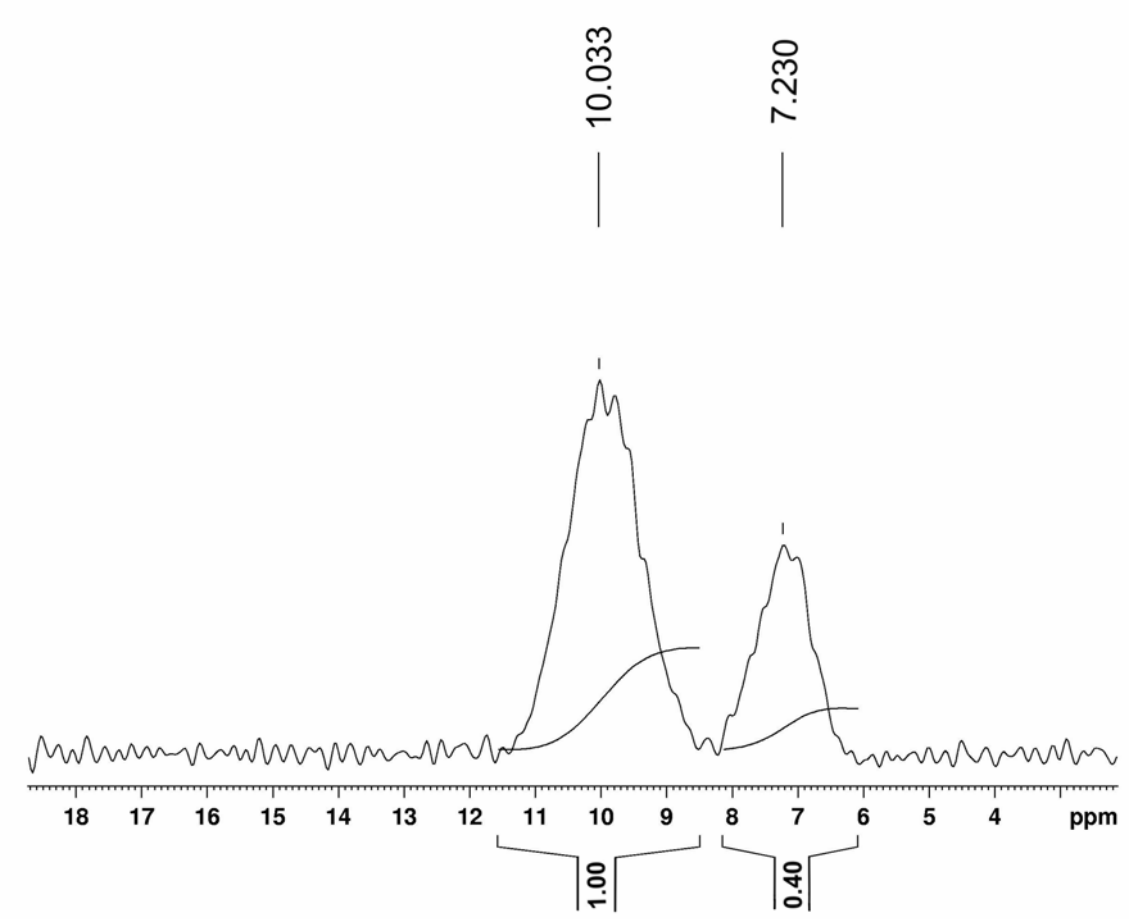

Figure S3: ^{31}P-CP/MAS NMR spectrum of $[Sr_2(CH_3PO_3CCl_2PO_2NC_4H_8)_2(H_2O)_{3.5}]_n$ (**3**).

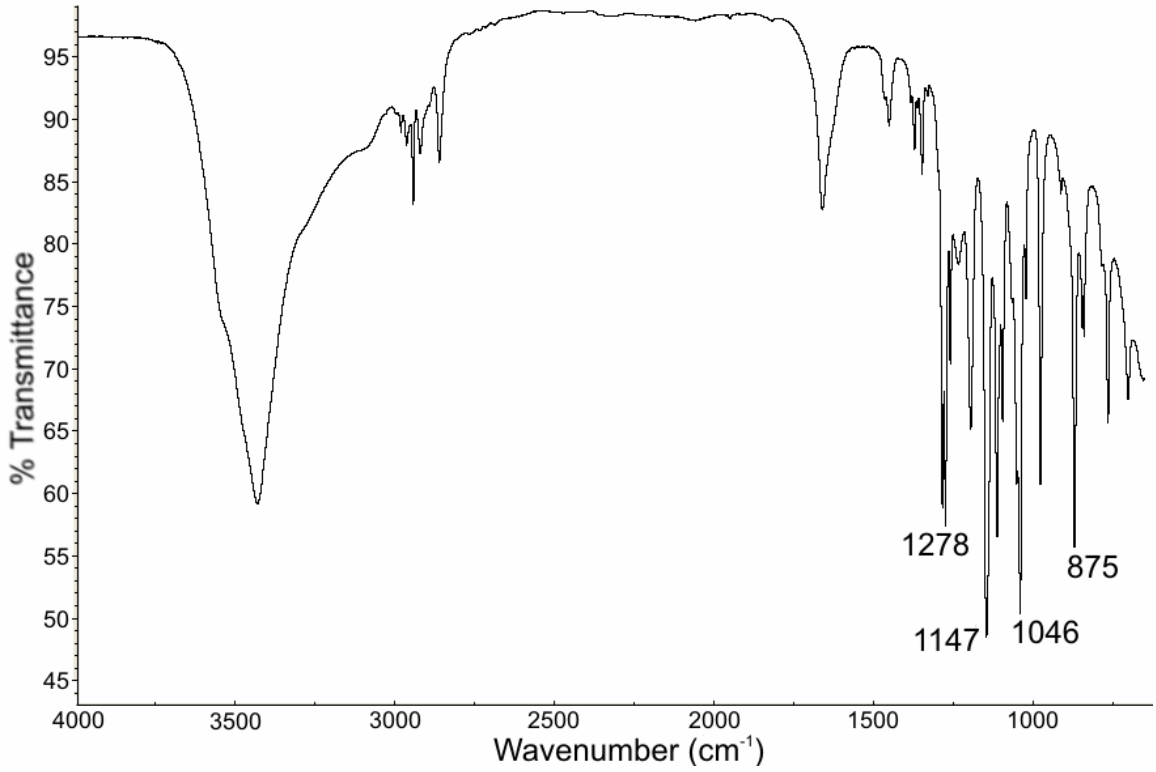

Figure S4: FT-IR spectrum of $[Mg(CH_3PO_3CCl_2PO_2NC_4H_8O)(H_2O)_3]_n$ (**1**) in KBr pellet.

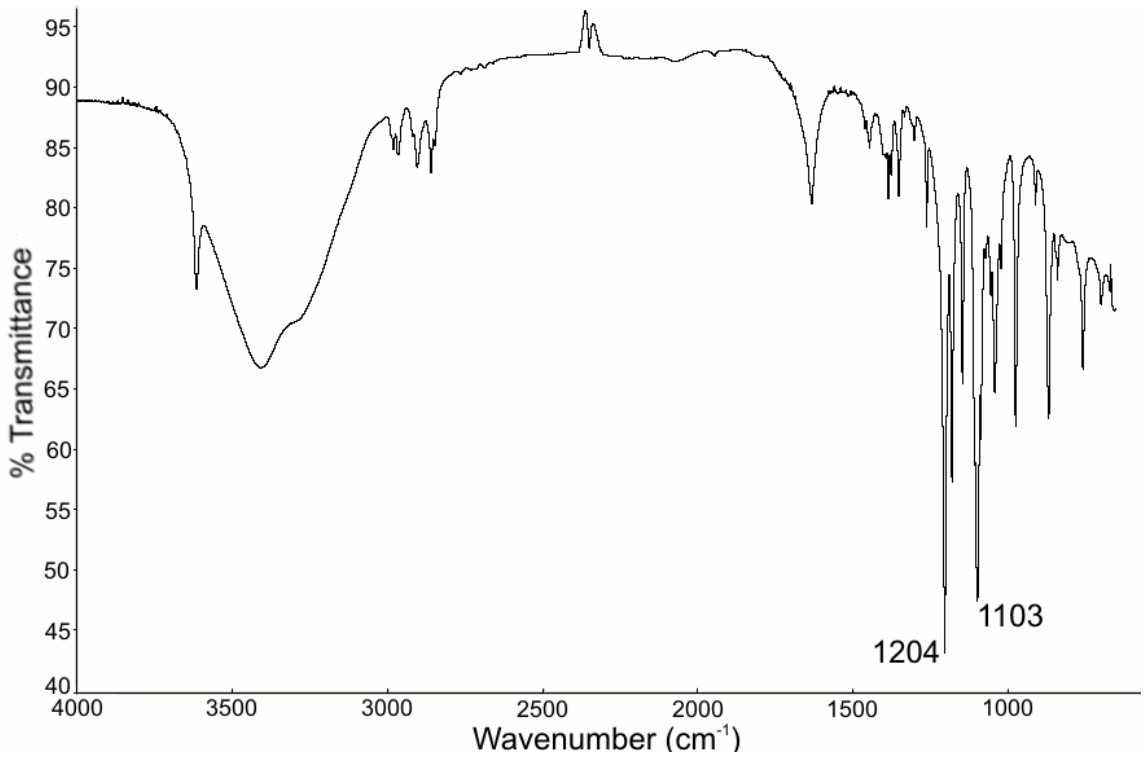

Figure S5: FT-IR spectrum of $[Ba(CH_3PO_3CCl_2PO_2NC_4H_8O)(H_2O)_2]_n$ (**2**) in KBr pellet.

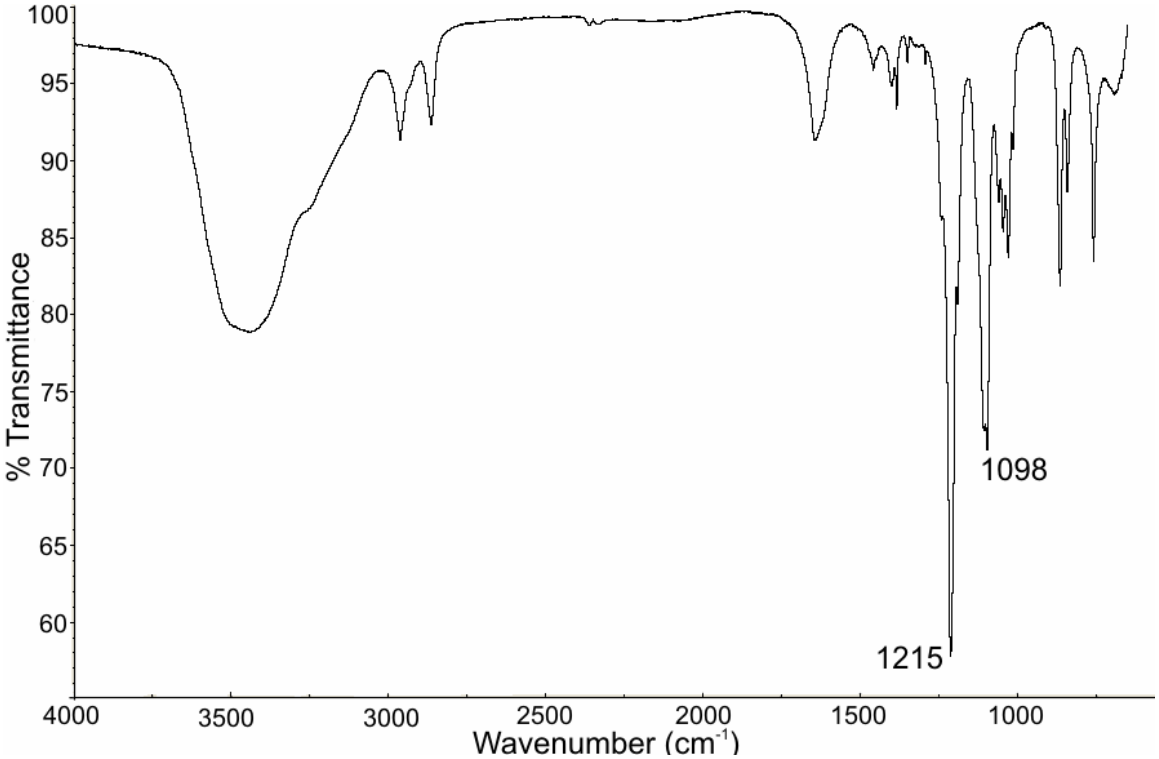

Figure S6: FT-IR spectrum of $[Sr_2(CH_3PO_3CCl_2PO_2NC_4H_8)_2(H_2O)_{3.5}]_n$ (**3**) in KBr pellet.

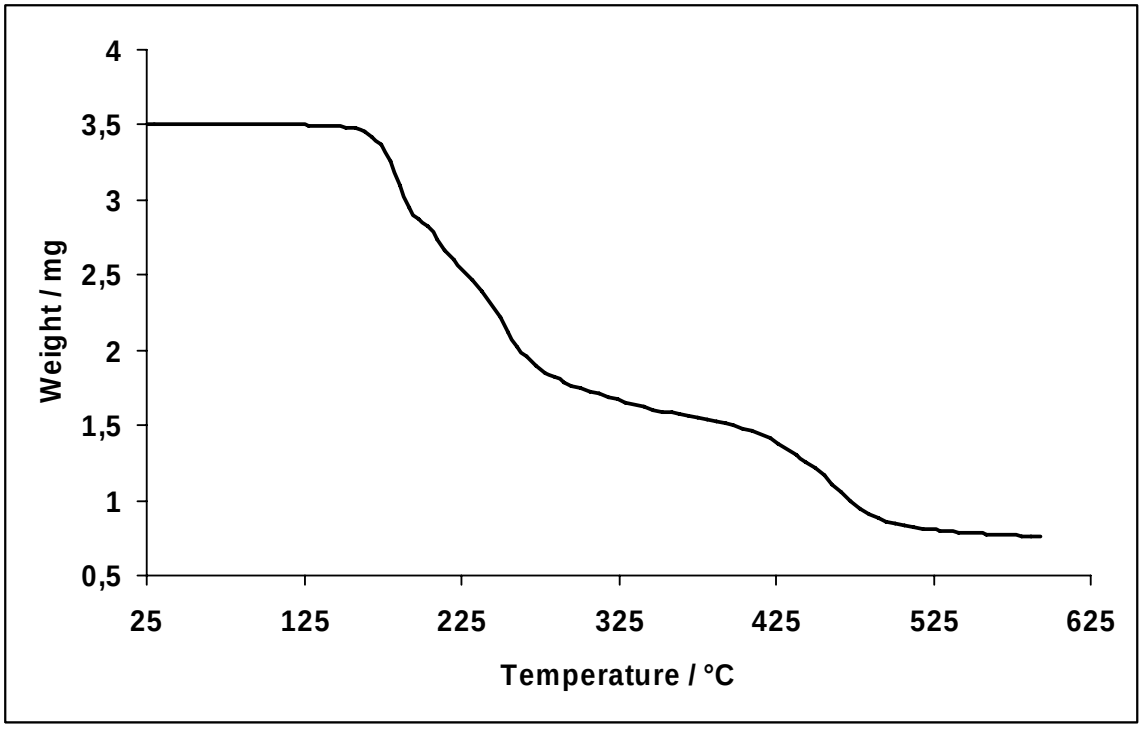

Figure S7: A thermogravimetric curve of the starting material $(C_4H_8ONH_2)_2CH_3PO_3C$-$Cl_2PO_2NC_4H_8O$ performed in nitrogen atmosphere in a temperature range of 25−600 ºC and at a heating rate of 5 ºC /min.

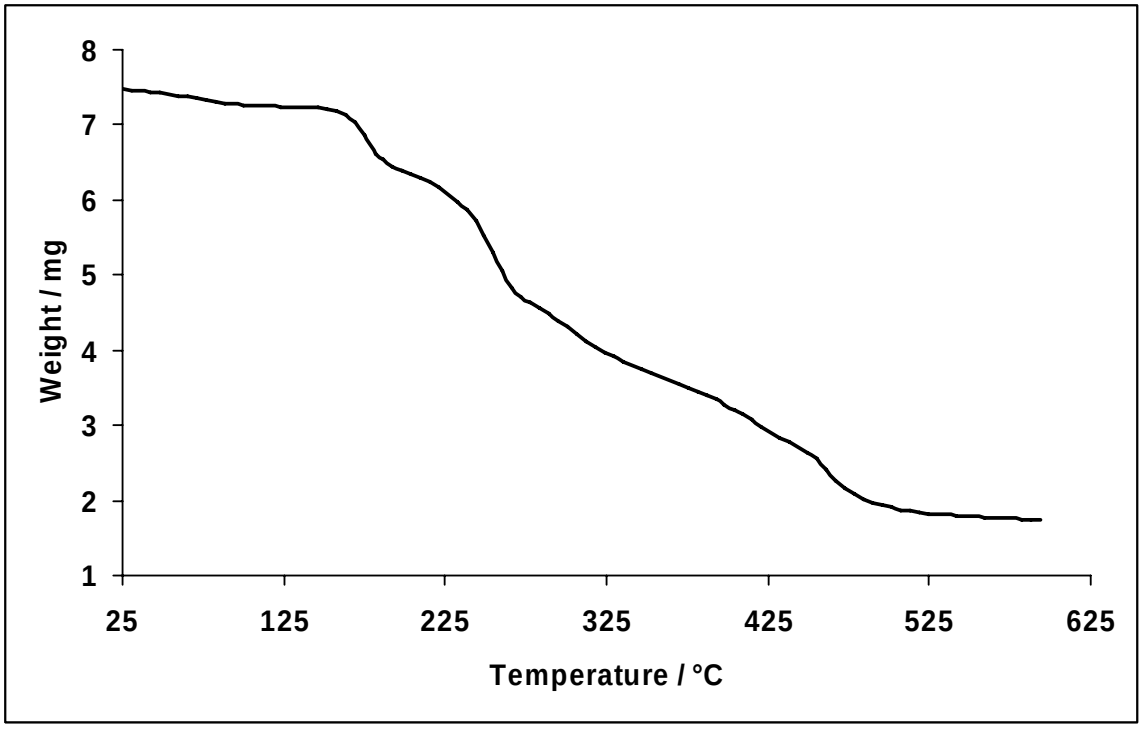

Figure S8: A thermogravimetric curve of the starting material $(C_4H_8NH_2)_2CH_3PO_3C$-$Cl_2PO_2NC_4H_8$ performed in nitrogen atmosphere in a temperature range of 25−600 ºC and at a heating rate of 5 ºC /min.

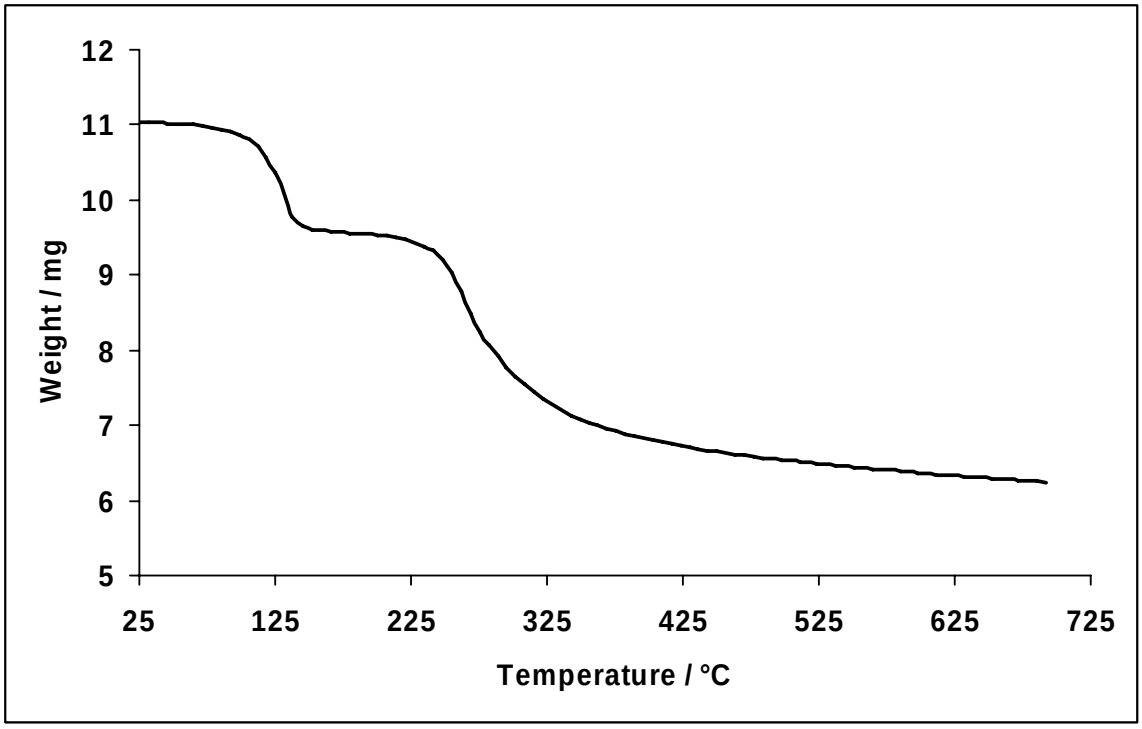

Figure S9: A thermogravimetric curve of $[Mg(CH_3PO_3CCl_2PO_2NC_4H_8O)(H_2O)_3]_n$ **(1)** performed under synthetic air in a temperature range of 25−700 ºC and at a heating rate of 5 ºC /min.

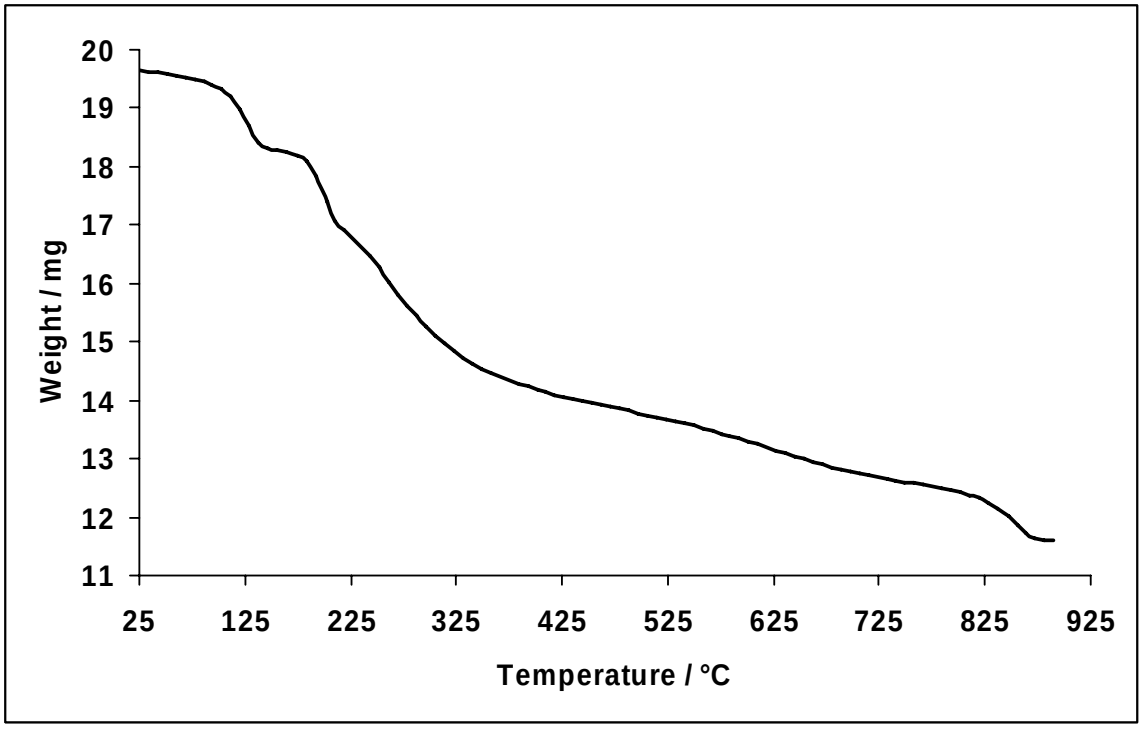

Figure S10: A thermogravimetric curve of $[Ba(CH_3PO_3CCl_2PO_2NC_4H_8O)(H_2O)_2]_n$ (**2**) performed under synthetic air in a temperature range of 25−900 ºC and at a heating rate of 5 ºC /min.

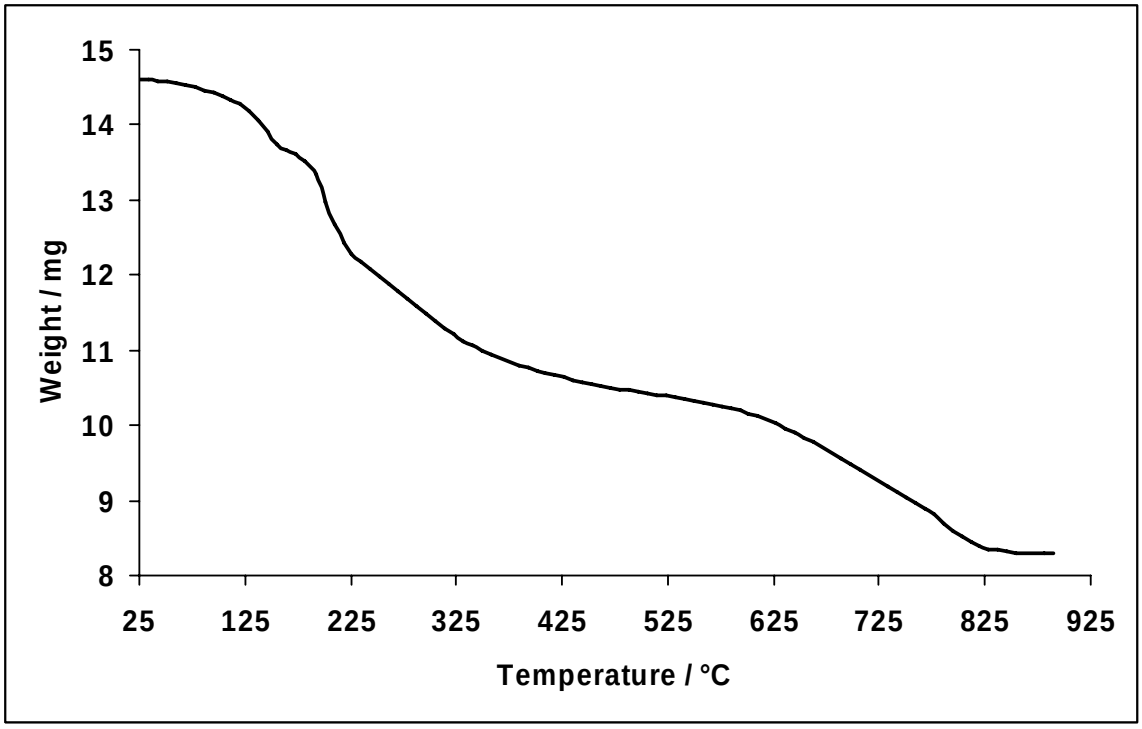

Figure S11: A thermogravimetric curve of $[Sr_2(CH_3PO_3CCl_2PO_2NC_4H_8)_2(H_2O)_{3.5}]_n$ (**3**) performed under synthetic air in a temperature range of 25−900 ºC and at a heating rate of 5 ºC /min.