

Unprecedented Mn^{II}-Phosphate 3D Coordination Polymer with Novel *pkb1* Topological Network Showing Spin-Canted Antiferromagnetism

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Supplementary Material

Table S1. Selected Bond Distances (Å) and Bond Angles (°) in **1**.

| | | |
|----------------------------|-----------------------------|-----------------------------|
| Mn1 O1 2.130(2) | Mn2 O1 2.177(2) | Mn3 O8 2.130(2) |
| Mn1 O2 2.231(2) | Mn2 O2 2.210(2) | Mn3 O3 2.164(2) |
| Mn1 O7 2.236(2) | Mn2 O1W 2.259(2) | Mn3 O5 2.197(2) |
| Mn2 O5 2.147(2) | Mn2 O6 2.323(2) | Mn3 O6 2.201(2) |
| Mn2 O8 2.164(2) | Mn3 O2W 2.112(2) | Mn3 O1W 2.291(2) |
| O1 Mn1 O2 78.33(7) | O1 Mn2 O1W 162.71(8) | O3 Mn3 O5 93.48(8) |
| O1 Mn1 O7 168.16(7) | O2 Mn2 O1W 87.76(8) | O2W Mn3 O6 88.00(8) |
| O2 Mn1 O7 86.76(8) | O5 Mn2 O6 88.27(7) | O8 Mn3 O6 81.67(8) |
| O5 Mn2 O8 160.38(7) | O8 Mn2 O6 78.19(7) | O3 Mn3 O6 89.67(8) |
| O5 Mn2 O1 93.53(8) | O1 Mn2 O6 121.47(8) | O5 Mn3 O6 176.86(7) |
| O8 Mn2 O1 81.81(8) | O2 Mn2 O6 157.06(7) | O8 Mn3 O1W 80.28(8) |
| O5 Mn2 O2 103.78(8) | O1W Mn2 O6 70.88(7) | O3 Mn3 O1W 162.18(7) |
| O8 Mn2 O2 93.90(8) | O2W Mn3 O8 165.08(8) | O5 Mn3 O1W 99.16(8) |
| O1 Mn2 O2 77.82(8) | O2W Mn3 O3 105.32(8) | O6 Mn3 O1W 77.79(8) |
| O5 Mn2 O1W 99.19(8) | O2W Mn3 O5 91.12(8) | O1 P1 O2 112.24(12) |
| O8 Mn2 O1W 89.82(8) | O8 Mn3 O5 98.61(8) | O1 P1 O3 107.07(11) |

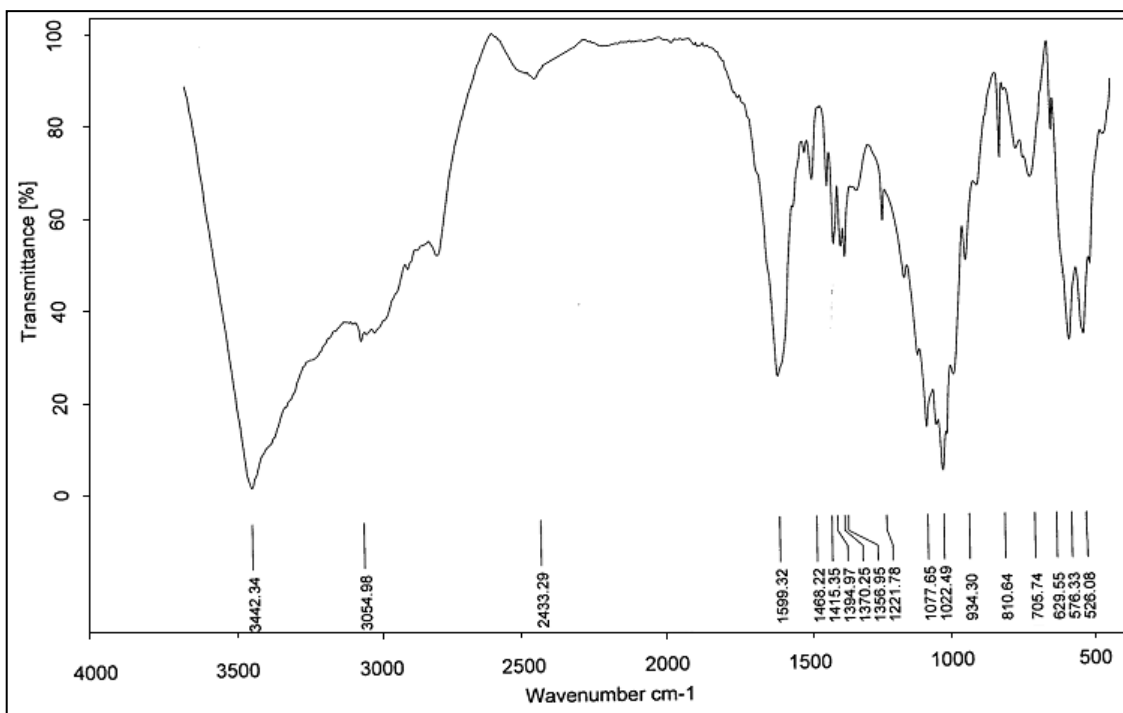


Figure S1. IR spectrum of complex 1.

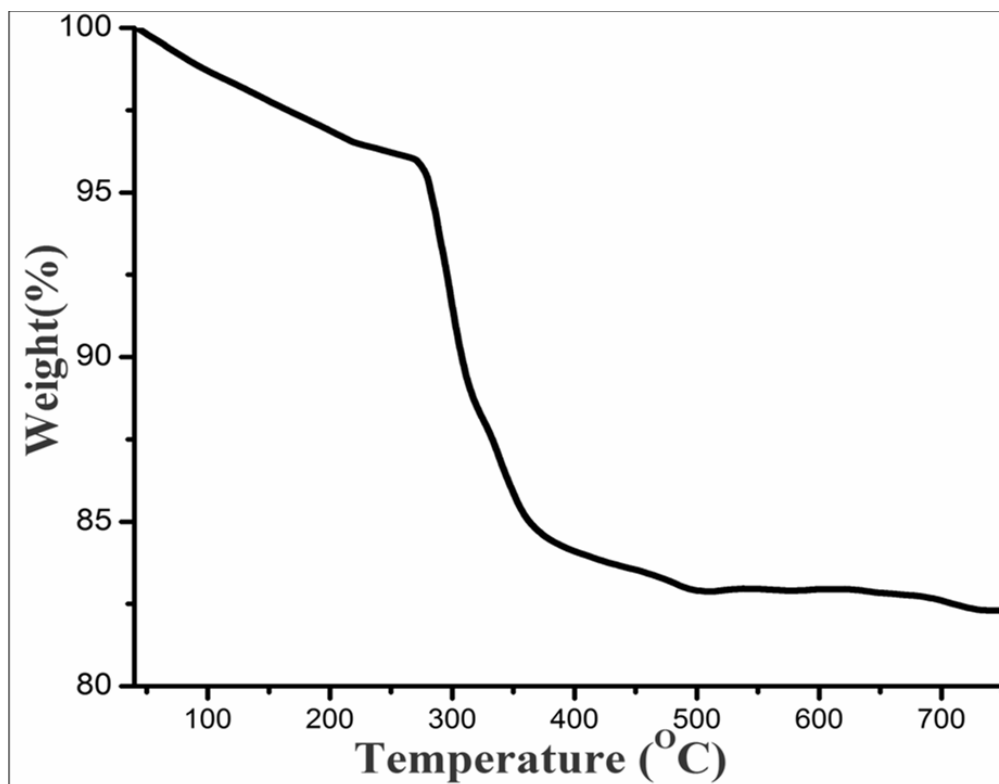


Figure S2. TGA of complex **1**.

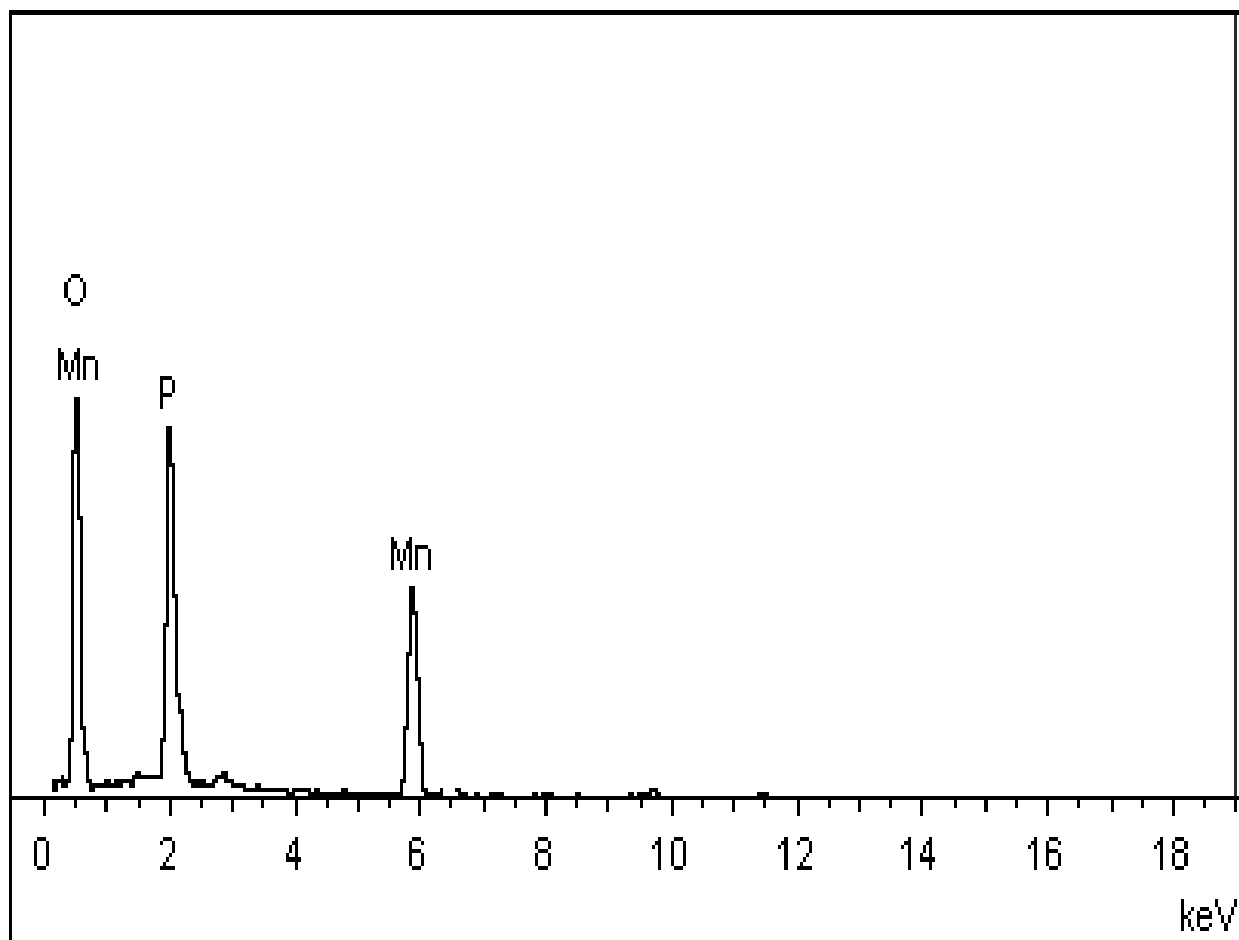


Figure S3. EDX of complex **1**.