

Supporting information

Mixed-valent manganese phosphonate clusters prepared under microwave-assisted and ambient conditions

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Table S1. BVS Calculations for Complex 1

atom	Mn ^{II}	Mn ^{III}	Mn ^{IV}	assignment
Mn1	3.2260	2.9508	3.0979	Mn ^{III}
Mn2	1.8942	1.7326	1.8190	Mn ^{II}
Mn3	1.9715	1.8218	1.8826	Mn ^{II}
Mn4	1.8895	1.7475	1.8034	Mn ^{II}
Mn5	2.0408	1.8667	1.9597	Mn ^{II}

Table S2. BVS Calculations for Complex 2

atom	Mn ^{II}	Mn ^{III}	Mn ^{IV}	assignment
Mn1	3.0798	2.8170	2.9575	Mn ^{III}
Mn2	3.1348	2.8673	3.0102	Mn ^{III}
Mn3	3.2579	3.0092	3.1116	Mn ^{III}
Mn4	3.3264	3.0606	3.1839	Mn ^{III}
Mn5	2.3589	2.1776	2.2537	Mn ^{II}
Mn6	1.9293	1.7810	1.8433	Mn ^{II}
Mn7	3.3425	3.0573	3.2097	Mn ^{III}

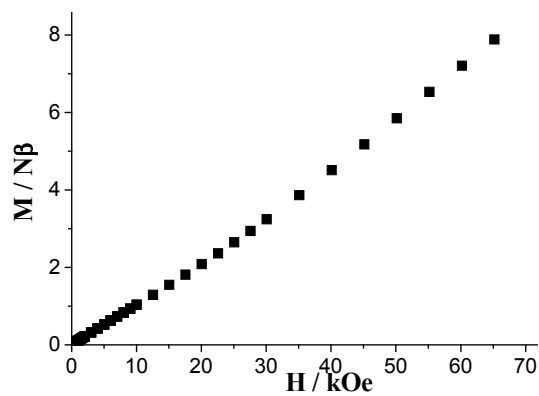


Fig. S1. Field dependent magnetization for 1·4H₂O·py·CH₃CN at 1.8 K.