

Supporting Information for

Photoelectron Spectroscopic and Computational Study of the PtMgH₃, 5⁻ Cluster Anions

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PtMgH₃⁻ coordinates (Å):

Pt	-0.32826400	0.01923000	-0.00060900
Mg	2.22812700	0.00120000	0.00330600
H	-0.84623700	-1.56060400	0.10684500
H	-0.40749900	1.63924400	0.00305600
H	0.12076200	-1.59295000	-0.10207500

PtMgH₃ coordinates (Å):

Pt	-0.30748700	0.03352800	0.00000300
Mg	2.13036800	-0.10043200	-0.00001800
H	-0.97078700	-1.45589900	0.45780100
H	0.36212700	1.50147700	0.00001600
H	-0.97180800	-1.45555200	-0.45787300

PtMgH₅⁻ coordinates (Å):

Pt	0.32507500	0.00001700	0.00003600
Mg	-2.26989000	-0.00014100	-0.00009100
H	0.37455400	1.52821200	0.53363500
H	0.37627700	-0.03599900	1.61835300
H	0.37730300	0.98019200	-1.28809200
H	0.37757100	-1.55046000	0.46500900
H	0.37711700	-0.92158700	-1.33064600

PtMgH₅ coordinates (Å):

Pt	-0.30602000	-0.00008300	0.00001800
Mg	2.12429100	0.00053500	-0.00011500
H	-0.32868100	1.59760400	-0.25874200
H	-0.32552500	0.24789200	-1.59957200
H	-0.32511800	0.74023500	1.43948300
H	-0.32141200	-1.44495500	-0.72982500
H	-0.32121600	-1.14071000	1.14860900