

Divalent metal ions

Atom	Me ²⁺	r (Å)	E ⁰ (V)	E ⁰ (n ⁺ /m ⁺)pK _{aq}		logK _{EDTA}	logβ _{n3}	Colour(Maq _n ²⁺)
Be	[He]	.31	-1.85					
Mg	[Ne]	.65	-2.37		11.4	8.7		
Ca	[Ar]	.99	-2.37		12.6	10.6		
Sr	[Kr]	1.13	-2.87		13.2	8.6		
Ba	[Xe]	1.35	-2.89			7.8		
Zn	[Ar]3d ¹⁰	.74	-.76		8.8	16.5	12.1	
Cd	[Kr]4d ¹⁰	.97	-.40		9.0	16.5	12.4	
Hg	[Xe]4f ¹⁴ 5d ¹⁰	1.10	.85	2/1: .92	3.7	21.8		
Ge	[Zn ²⁺]4s ²	.73	.23					
Sn	[Cd ²⁺]5s ²	.93	-.14	4/2: .15				
Pb	[Hg ²⁺]6s ²	1.20	-.13	4/2: 1.8	7.8	18.0		
Ti	[Ar]3d ²	.70	-1.6	3/2: -.37				
V	[Ar]3d ³	.65	-1.18	3/2: -.25		12.7		violet
Cr	[Ar]3d ⁴	.73	-.91	3/2: -.41		13.6		blue
Mn	[Ar]3d ⁵	.80	-1.18	3/2: 1.54	10.6	13.6	5.7	light red
Fe	[Ar]3d ⁶	.76	-.44	3/2: .77	9.5	14.3	9.5	light green
Co	[Ar]3d ⁷	.74	-.28	3/2: 1.84	8.9	16.1	13.8	red
Ni	[Ar]3d ⁸	.69	-.25		10.6	18.6	18.6	green
Cu	[Ar]3d ⁹	.72	.34	2/1: .15	6.8	18.8	18.7	light blue
Pd	[Kr]4d ⁸	.90	.99			18.5		
Pt	[Xe]4f ¹⁴ 5d ⁸	1.0	1.2		4			
Eu	[Xe]4f ⁷	1.10	-3.43	3/2: -.36				
Yb	[Xe]4f ¹⁴	1.02	-2.80	3/2: -1.2				