

Table 1.1 The effect of dithizone concentration for copper determination.





Concentration of dithizone (%w/v)	Images of copper(II)–dithizone complexes (mg L ⁻¹)	R-squared	Slope of Red value
0.0015	 0.2 0.4 0.8	0.6233	15.17
0.0025	 0.2 0.4 0.8	0.7446	115.83
0.0050	 0.2 0.4 0.8	0.9921	155.82
0.0100	 0.2 0.4 0.8	0.9705	139.45

Table 1.2 The effect of dithizone concentration for zinc determination.





Concentration of dithizone (%w/v)	Images of zinc(II)–dithizone complexes (mg L ⁻¹)	R-squared	Slope of Red value
0.0015	 0.2 0.4 0.8	0.9989	44.16
0.0025	 0.2 0.4 0.8	0.9443	122.14
0.0050	 0.2 0.4 0.8	0.9897	150.95
0.0100	 0.2 0.4 0.8	0.0611	66.78

Table 1.3 The effect of dithizone concentration for lead determination.





Concentration of dithizone (%w/v)	Images of Lead(II)–dithizone complexes (mg L ⁻¹)	R-squared	Slope of Red value
0.0015	 0.2 0.4 0.8	0.7989	57.76
0.0025	 0.2 0.4 0.8	0.9403	190.02
0.0050	 0.2 0.4 0.8	0.6097	72.45
0.0100	 0.2 0.4 0.8	0.6611	46.78

Table 1.4 The effect of dithizone concentration for cadmium determination





Concentration of dithizone (%w/v)	Images of Cadmium(II)–dithizone complexes (mg L ⁻¹)	R-squared	Slope of Red value
0.0015	 0.2 0.4 0.8	0.3708	19.16
0.0025	 0.2 0.4 0.8	0.8987	140.14
0.0050	 0.2 0.4 0.8	0.9359	206.95
0.0100	 0.2 0.4 0.8	0.9007	120.78

Table 2.1 The effect of dithizone volume for copper determination.





Volume of dithizone (mL)	Images of copper(II)–dithizone complexes (mg L ⁻¹)	R-squared	Slope of Red value
0.5	 0.2 0.4 0.8	0.8233	59.17
1.0	 0.2 0.4 0.8	0.8446	78.56
1.25	 0.2 0.4 0.8	0.9721	134.52
1.5	 0.2 0.4 0.8	0.9905	163.26

Table 2.2 The effect of dithizone volume for zinc determination.





Volume of dithizone (mL)	Images of zinc(II)–dithizone complexes (mg L ⁻¹)	R-squared	Slope of Red value
0.5	 0.2 0.4 0.8	0.1579	46.56
1.0	 0.2 0.4 0.8	0.5446	116.78
1.25	 0.2 0.4 0.8	0.9998	179.40
1.5	 0.2 0.4 0.8	0.9705	65.12

Table 2.3 The effect of dithizone volume for lead determination.




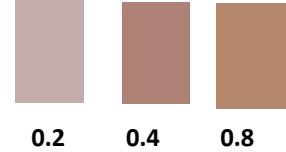
Volume of dithizone (mL)	Images of Lead(II)–dithizone complexes (mg L ⁻¹)	R-squared	Slope of Red value
0.5	 0.2 0.4 0.8	0.8233	181.15
1.0	 0.2 0.4 0.8	0.6446	146.33
1.25	 0.2 0.4 0.8	0.5712	95.72
1.5	 0.2 0.4 0.8	0.5750	99.25

Table 2.4 The effect of dithizone volume for cadmium determination.

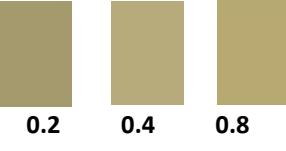
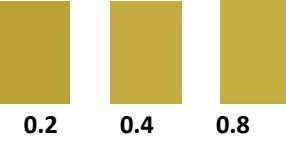

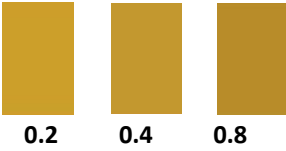
Volume of dithizone (mL)	Images of cadmium(II)–dithizone complexes (mg L ⁻¹)	R-squared	Slope of Red value
0.5	 0.2 0.4 0.8	0.6233	59.87
1.0	 0.2 0.4 0.8	0.7446	78.56
1.25	 0.2 0.4 0.8	0.7721	134.23
1.5	 0.2 0.4 0.8	0.9705	163.45

Table 3.1 The effect of buffer pH for copper determination.

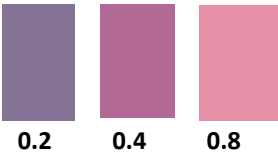
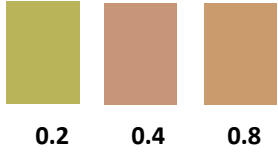
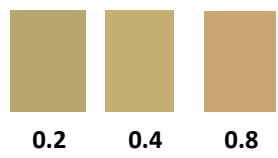

Buffer (pH)	Images of copper(II)–dithizone complexes (mg L ⁻¹)	R-squared	Slope of Red value
2	 0.2 0.4 0.8	0.9933	173.19
3.5	 0.2 0.4 0.8	0.8634	37.77
4.5	 0.2 0.4 0.8	0.9126	46.62
5.5	 0.2 0.4 0.8	0.9811	50.74

Table 3.2 The effect of buffer pH for zinc determination.


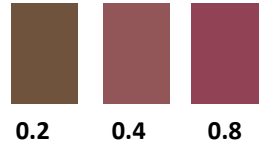
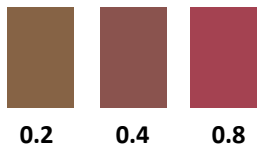
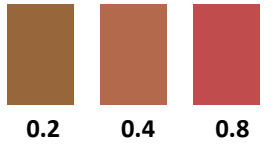




Buffer (pH)	Images of zinc(II)–dithizone complexes (mg L ⁻¹)	R-squared	Slope of Red value
3.5	 0.2 0.4 0.8	0.8173	78.25
4.0	 0.2 0.4 0.8	0.9443	56.11
4.5	 0.2 0.4 0.8	0.9909	120.72
5	 0.2 0.4 0.8	0.9248	40.19

Table 3.3 The effect of buffer pH for cadmium determination.

Buffer (pH)	Images of cadmium(II)-dithizone complexes (mg L ⁻¹)	R-squared	Slope of Red value
3	 0.2 0.4 0.8	0.7335	79.23
4	 0.2 0.4 0.8	0.9406	60.01
5	 0.2 0.4 0.8	0.9812	291.45
5.5	 0.2 0.4 0.8	0.9450	126.86