

theoretical concentration (M)	Vol stock Theroretic al (mL)	Buret Inital Vol (mL)	Buret Final Vol (mL)	Vol stock solution autual (mL)	Total Volume of solution (mL)	Actual Concentra tion (M)	ml Volumetri c Flask (g)	ml Volumetri c Flask + (g)
3.00	10	35	45.10	10.1	10.00	3.03	17.88	24.48
2.00	6.67	27	33.7	6.7	10.00	1.34	17.88	25.61
1.00	3.33	39	41.6	2.6	10.00	0.26	17.88	20.95
0.50	1.67	39.1	39	0.6	10.00	0.03	17.88	18.57
0.00	0	29.9	39.10	9.2	10.00	0	17.88	27.50
B				10	10.00		17.88	28.51

0.00	1.41
0.50	0.03
1.00	0.26
2.00	1.34
3.00	3.03
unknown	1.42

Sample Calucation
Actual Concentration (M)=E3*A3/F3
Density (g/mL)=J3/E3
mass of Solution=H3-I3
Error=(G3-A3)/A3*100

Mass of Solution	Density	Error percentag e
(g)	(g/mL)	%
6.60	0.65	1
7.72	1.15	-33
3.07	1.18	-74
0.69	1.14	-94
9.62	1.05	0
10.63	1.06	