

TABLE I

As, 9.94; *Cr*, 149; *Ac*, 484; *Vol.*, 500

<i>t</i>	<i>As</i> - <i>x</i>	<i>x</i>	<i>k</i>
2	7.54	2.40	0.060
3	6.53	3.41	0.061
4	6.04	3.90	0.054
5	5.20	4.74	0.056
7	3.91	6.03	0.058
			Avg. 0.058

TABLE II

As, 9.94; *Cr*, 298; *Ac*, 484; *Vol.*, 500

<i>t</i>	<i>As</i> - <i>x</i>	<i>x</i>	<i>k</i>
1	7.51	2.43	0.122
2	6.05	3.89	0.108
3	5.00	4.94	0.100
4	3.93	6.01	0.108
			Avg. 0.110

TABLE III

As, 9.94; *Cr*, 447; *Ac*, 484; *Vol.*, 500

<i>t</i>	<i>As</i> - <i>x</i>	<i>x</i>	<i>k</i>
1	6.46	3.48	0.187
2	4.54	5.40	0.170
			Avg. 0.178

TABLE IV

As, 4.95; *Cr*, 149; *Ac*, 484; *Vol.*, 500

<i>t</i>	<i>As</i> - <i>x</i>	<i>x</i>	<i>k</i>
1	4.45	0.50	(0.046)
2	3.92	1.03	0.051
3	3.44	1.51	0.053
4	3.02	1.93	0.054
5	2.72	2.23	0.052
			Avg. 0.052

TABLE V

As, 9.94; *Cr*, 149; *Ac*, 968; *Vol.*, 500

<i>t</i>	<i>As</i> - <i>x</i>	<i>x</i>	<i>k</i>
1	6.61	3.33	(0.177)
1.5	5.56	4.38	0.168
2	4.70	5.24	0.163
2.5	3.93	6.01	0.161
3	3.17	6.77	0.166
			Avg. 0.164

TABLE VI

As, 9.94; *Cr*, 149; *Ac*, 725; *Vol.*, 500

<i>t</i>	<i>As</i> - <i>x</i>	<i>x</i>	<i>k</i>
1	7.58	2.36	(0.118)
1.5	6.79	3.15	0.110
2	5.96	3.98	0.111
2.5	5.40	4.54	0.106
3	4.83	5.11	0.105
4	3.80	6.14	0.104
			Avg. 0.107

In the measurements of Tables I-VI the residual arsenious acid was not always titrated immediately after adding the restrainer; this introduced an error due to oxidation of arsenious acid in alkaline solution.¹ In the measurements of Tables VII-XVI the arsenious acid was titrated with iodine

¹ Kessler: Pogg. Ann., 113, 142 (1861). In an average case (Table XIV), it was found that about 0.05 cc of 0.01 *N* arsenious acid solution was oxidized in one minute after adding the restrainer.