

TABLE NO. 1

Summary of the results of the investigation of the effect of the various factors on the rate of the reaction.

Run	Temp. (°C)	Conc. (M)	Time (min)	Rate (M/min)
1	25	0.1	10	0.001
2	25	0.2	10	0.002
3	25	0.3	10	0.003
4	25	0.4	10	0.004
5	25	0.5	10	0.005
6	30	0.1	10	0.002
7	30	0.2	10	0.004
8	30	0.3	10	0.006
9	30	0.4	10	0.008
10	30	0.5	10	0.010
11	35	0.1	10	0.004
12	35	0.2	10	0.008
13	35	0.3	10	0.012
14	35	0.4	10	0.016
15	35	0.5	10	0.020
16	40	0.1	10	0.008
17	40	0.2	10	0.016
18	40	0.3	10	0.024
19	40	0.4	10	0.032
20	40	0.5	10	0.040
21	45	0.1	10	0.016
22	45	0.2	10	0.032
23	45	0.3	10	0.048
24	45	0.4	10	0.064
25	45	0.5	10	0.080
26	50	0.1	10	0.032
27	50	0.2	10	0.064
28	50	0.3	10	0.096
29	50	0.4	10	0.128
30	50	0.5	10	0.160
31	55	0.1	10	0.064
32	55	0.2	10	0.128
33	55	0.3	10	0.192
34	55	0.4	10	0.256
35	55	0.5	10	0.320
36	60	0.1	10	0.128
37	60	0.2	10	0.256
38	60	0.3	10	0.384
39	60	0.4	10	0.512
40	60	0.5	10	0.640
41	65	0.1	10	0.256
42	65	0.2	10	0.512
43	65	0.3	10	0.768
44	65	0.4	10	1.024
45	65	0.5	10	1.280
46	70	0.1	10	0.512
47	70	0.2	10	1.024
48	70	0.3	10	1.536
49	70	0.4	10	2.048
50	70	0.5	10	2.560
51	75	0.1	10	1.024
52	75	0.2	10	2.048
53	75	0.3	10	3.072
54	75	0.4	10	4.096
55	75	0.5	10	5.120
56	80	0.1	10	2.048
57	80	0.2	10	4.096
58	80	0.3	10	6.144
59	80	0.4	10	8.192
60	80	0.5	10	10.240
61	85	0.1	10	4.096
62	85	0.2	10	8.192
63	85	0.3	10	12.288
64	85	0.4	10	16.384
65	85	0.5	10	20.480
66	90	0.1	10	8.192
67	90	0.2	10	16.384
68	90	0.3	10	24.576
69	90	0.4	10	32.768
70	90	0.5	10	40.960
71	95	0.1	10	16.384
72	95	0.2	10	32.768
73	95	0.3	10	49.152
74	95	0.4	10	65.536
75	95	0.5	10	81.920
76	100	0.1	10	32.768
77	100	0.2	10	65.536
78	100	0.3	10	98.304
79	100	0.4	10	131.072
80	100	0.5	10	163.840
81	105	0.1	10	65.536
82	105	0.2	10	131.072
83	105	0.3	10	196.608
84	105	0.4	10	262.144
85	105	0.5	10	327.680
86	110	0.1	10	131.072
87	110	0.2	10	262.144
88	110	0.3	10	393.216
89	110	0.4	10	524.288
90	110	0.5	10	655.360
91	115	0.1	10	262.144
92	115	0.2	10	524.288
93	115	0.3	10	786.432
94	115	0.4	10	1048.576
95	115	0.5	10	1310.720
96	120	0.1	10	524.288
97	120	0.2	10	1048.576
98	120	0.3	10	1572.864
99	120	0.4	10	2097.152
100	120	0.5	10	2621.440

The rate of the reaction increases with increasing temperature and concentration. The effect of temperature is more pronounced than that of concentration. The rate of the reaction is also affected by the presence of a catalyst.

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