

Table V. Shock wave data for the benzene Hugoniot.

Shot No.	Initial temp. (°C)	Initial density (g/cc)	Shock vel. (km/sec)	Particle vel. (km/sec)	Pressure (kbar)	Relative vol. V/V_0
1	22	0.877	2.78 ± 0.01	0.61 ± 0.09	15.0 ± 2.1	0.779 ± 0.031
2	29	0.869	2.72 ± 0.01	0.73 ± 0.04	17.4 ± 1.0	0.730 ± 0.016
3	28	0.870	2.96 ± 0.02	0.73 ± 0.05	18.9 ± 1.2	0.753 ± 0.016
4	28	0.870	3.31 ± 0.01	0.90 ± 0.03	25.8 ± 0.9	0.730 ± 0.009
5	24	0.875	3.44 ± 0.01	0.97 ± 0.03	29.1 ± 1.0	0.719 ± 0.009
6	20	0.879	3.47 ± 0.01	0.98 ± 0.04	29.8 ± 1.2	0.719 ± 0.012
7	19	0.880	3.85 ± 0.01	1.22 ± 0.03	41.3 ± 1.0	0.684 ± 0.008
8	32	0.866	3.89 ± 0.00	1.31 ± 0.02	44.2 ± 0.8	0.663 ± 0.006
9	14	0.885	4.05 ± 0.01	1.31 ± 0.03	47.1 ± 1.0	0.676 ± 0.007
10	22	0.877	4.05 ± 0.01	1.34 ± 0.03	47.6 ± 0.9	0.669 ± 0.006
11	18	0.881	4.09 ± 0.01	1.45 ± 0.09	52.1 ± 3.1	0.646 ± 0.021
12	29	0.869	4.38 ± 0.01	1.63 ± 0.03	62.3 ± 1.0	0.627 ± 0.006
13	29	0.869	4.52 ± 0.01	1.72 ± 0.01	67.4 ± 0.5	0.620 ± 0.003
14	14	0.885	4.79 ± 0.02	1.78 ± 0.05	75.3 ± 2.1	0.630 ± 0.010
15	27	0.871	4.77 ± 0.02	1.81 ± 0.02	75.4 ± 0.9	0.620 ± 0.004
16	28	0.870	5.00 ± 0.02	2.04 ± 0.10	88.7 ± 4.2	0.591 ± 0.020
17	28	0.870	5.28 ± 0.01	2.17 ± 0.02	99.5 ± 0.8	0.589 ± 0.003
18	24	0.875	5.64 ± 0.01	2.21 ± 0.02	106 ± 1	0.596 ± 0.004
19	19	0.880	5.52 ± 0.02	2.26 ± 0.04	110 ± 2	0.591 ± 0.007