

consists of four CH_2 groups arranged linearly with a CH_3 group at each end, could be compared with each other and with the benzene Hugoniot. The purpose of this comparison would be to learn the effects molecular structure and the additional hydrogen atoms have on the characteristics of the Hugoniot curves, transition pressures, and electrical properties.

There is also the series of Freons in the liquid and solid forms for which the Hugoniots could be compared in the search for a systematic behavior. Also, a study of the substituted methanes which includes carbon tetrachloride remains to be done in the liquid and solid forms. The number of interesting substances that could be investigated by dynamic methods is practically unlimited and the problem is to sort out those that would yield the most useful high pressure information amenable to theoretical interpretation.