



THE UNIVERSITY OF CHICAGO  
DEPARTMENT OF CHEMISTRY  
RESEARCH REPORT NO. 1000

PHYSICAL PROPERTIES OF POLYMER SOLUTIONS

The following data were obtained from measurements made on a solution of polyisobutylene in benzene at 25°C. The concentration of the solution was 0.5 g./100 ml. The measurements were made with a solution viscometer of the type described by H. L. Frisch and R. H. Colclough, J. Polym. Sci., 10, 405 (1953).

Concentration (g./100 ml.)	Intrinsic Viscosity (dl./g.)	Reduced Viscosity (dl./g.)	Relative Viscosity
0.5	0.12	0.12	1.00
1.0	0.24	0.24	2.00
1.5	0.36	0.36	3.00
2.0	0.48	0.48	4.00
2.5	0.60	0.60	5.00
3.0	0.72	0.72	6.00
3.5	0.84	0.84	7.00
4.0	0.96	0.96	8.00
4.5	1.08	1.08	9.00
5.0	1.20	1.20	10.00

These data are in agreement with those reported by H. L. Frisch and R. H. Colclough, J. Polym. Sci., 10, 405 (1953).

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