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Organic High Pressure Chemistry (Studies In Organic Chemistry)



Synopsis

High pressure chemistry is usually understood to mean the study of reactions in solutions under pressure. Pressure in this connection is commonly agreed to mean at least a kilobar (or roughly a thousand times atmospheric pressure) and, at most, twenty kilobars (since few solutions have not yet solidified at that pressure). The chapters in this book describe how such pressures shift equilibria and how they affect rates. While it is obvious that the changes are in the direction that represents smaller volume, it is less obvious what factors in molecular structure will promote smaller structure. The purpose of this book is to acquaint potential users of high pressure with these factors. The shifts in solution equilibria and rates that pressure can bring about are far larger than most chemists realise. The reason for this unfamiliarity is that many have unwittingly retained the assumption often made in elementary chemistry courses covering gas phase problems that rate and equilibrium constants are functions of temperature but not of pressure, and that only concentrations matter.

Book Information

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