#### Living carbocationic polymerization

LXI. Narrow molecular weight distribution polyisobulylenes prepared by estere and ketones as electron donors'

Jiaushi Si and J.P. Kennedy \*\*

Mailvide Morten institute at Palymer Salance, the University of Akton. Alvon. DH +4309-8009 LEA

#### Abstract

Electron denors (EDs) effectively mediate living carpocationic polymerizations (LC\*Pzr), for example, that of isobutylone (IB). The purpose of this research was to investigate the effect of various new EDs, specifically esters and ketones on the LC\*Pzn of IB, and to determine the affect of these EDs on the molecular weight distribution, (MWD) of polyisopoulylane (PIB) under various experimental conditions. Thus the LC\*Pzn of IB was effected by the dicumylic chieffed (DCC)/BCl3 initiating system in the presence of various EDs, such as dimethyliphisate, di-j-octyliphisate, methyliphisate, dinyliphisate, dimethyliphisate, dimethyliphisate, dimethyliphisate, dimethyliphisate, dimethyliphisate, dimethyliphisate, dimethyliphisate, trimethyliphisate, dimethyliphisate, and the Ma/Mn of the PIB was determined. It was found that the nature and the concentration of the ED atrongly influence MWD. Under we kelined conditions in the presence of dimethyliphisate or di-j-octyliphisate, polymers with close to Poisson distribution (My/Mn=1.03) could be obtained.

#### Introduction

EDs efficiently mediate the LC<sup>®</sup>Pan of IB leading to narrow MWD polymer and also reduce undes rediside reactions such as indente formation and initiation by protic impurities. N.N.-dimethylacetomide and dimethylaufoxide are among familiar EDs for LC<sup>®</sup>Pan <sup>1,3</sup>. Recently other donors like amines and strictes <sup>4</sup>, such as dimethylamine, trimethylamine, dibutylamina, pyridina and its defivatives <sup>5</sup> have also been examined. Carbonyl compounds received less attention, perhaps because ethyl ecelate which was the first ED examined was found to exhibit a relatively poor conprefient. In contrast to ethyl acetate, we have found many carbonyl compounds, especially some aromatic carbonyls, that are expellent EDs and produce very well-defined harrow MWD products.

The purpose of these investigations was to study the effect of various affect thexamined estars and kelones on the LOTPan of IB, particularly on the MWD of PIDs propared under various expertmental conditions. Another objective of this work was to search for a containing between the sinusture of the ED and MWD.

#### Experimental

<u>Materials</u>: Table 1 shows the chemical structures and abbreviations of the EDs used. Dimethylacetamide (DMA), methyl benzoste (MB), benzophonone (DP),

L. Heider, BASF Aktiengesellschaft

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Cationic Polymerization Rudolf Faust, Timothy Daniel Shaffer, 1997 Cationic Polymerization covers the essential practices and latest procedures for working with carbocationic and ring opening polymerization. It presents the kinetic rates of individual steps of cationic polymerization using laser flash photolysis and competitive experimental techniques It examines several new catalyst systems including a water resistant recoverable Lewis acid for ring polymerization It also highlights the use of living carbocationic techniques to prepare amphiphilic block copolymers multiarm star polymers and coupled copolymers of isobutylene and it compares the similarities and differences of living radical and carbocationic techniques Essential for chemists working with cationic polymerization the volume is also useful for researchers new to the Synthesis and Polymerization of Metal-Containing Monomers Anatoly D. Pomogailo, 2018-01-31 This book overviews field methods for the synthesis of metal containing monomers with various types of metal bonds to the organic moiety of the molecule such as ionic covalent donor acceptor and others Published data on homopolymerization copolymerization and graft polymerization of these monomers are generalized Synthesis and Polymerization of Metal Containing Monomers discusses features typical of the molecular and structural organization of the resulting metal containing polymers their properties and the associated major applications such as catalytical and biological activity electrophysical characteristics and thermal Polymerization and Copolymerization of Unsaturated Organotin and Related Monomers Maurice John resistance Humphrey, Queen Elizabeth College. Department of Chemistry, 1975 Palladium-catalyzed Polymerization of **Unsaturated Monomers** Daniel Haviv, 1987 Process for the Preparation of Polymers from Olefinically Unsaturated Monomers L. Heider, BASF Aktiengesellschaft, 1990

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