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GAS LIQUID PARTITION CHROMATOGRAPHY IN BENZENE-POLYPHENYL SYSTEMS AND POLYMER STATISTICAL THERMODYNAMICS

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GC was used to measure activity coefficients and heats of solution at infinite dilution for benzene in biphenyl, m-terphenyl, and o-terphenyl over a range of temperatures. Two or three 0.1 ml samples of benzene vapor and air were injected into each of the cols. at varying temps.

Instrument: Modified Aerograph Model A-90P
Col. L/d: 210-cm x 0.25-in. Cu cols.
Stat. ph./concn.: I-o-terphenyl; II-m-terphenyl; III-biphenyl
Support/mesh size: 100-120 mesh acid washed DMCS treated Chromosorb G (26.7 g)
Carrier gas/flow rate: Helium Oper. temp.: Solvent b.p., 125°C
Retention data: Tabulated , p. 3684-8
Remarks: The amounts of stat. phase were as follows: 0.5, 0.8, and 1.3 g of o-terphenyl; 0.45, 0.55, and 0.65 g of m-terphenyl; and 0.77 and 0.99 g of biphenyl
Key words: activity coefficients, heats of solution, benzene 90-89-72-54

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