

Book review

Purification of Inorganic and Organic materials: edited by MORRIS ZIEF, J. T. Baker Chemical Co., Marcel Dekker, New York, 1969, xvii + 318 pp., 15 × 23 cm, \$17.75. Forty-three contributors are involved in writing 30 chapters on the preparation of pure materials. The book is divided into three parts: Part I on Analytical Methods; Part II on Preparative Methods; and Part III on Containment. Of primary interest, perhaps, to readers of this *Journal* are the chapters on zone melting, and differential thermal analysis and differential scanning calorimetry. The latter chapter, written by E. M. Barrall II and J. F. Johnson, covers the use of these two techniques for the determination of the purity, boiling points, and phase diagrams of organic compounds. The methods discussed include purity determinations by melting-point depression and melting range; boiling-point determinations by DTA; rate of freezing determination by DSC and DTA; and the determination of phase diagrams. The chapter is well written and should prove to be a useful source of information for workers in this area of thermochemistry.

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