

CONTENTS

CALORIMETRIC PURITY

An Overview of the Calorimetric Purity Measurement	5
Some Remarks on the History and Development of the ASTM Committee E-37 Purity Method	16
Preparation and Evaluation of a Set of Thermal Purity Standards	22
Optimization of Accuracy and Precision in the Differential Scanning Calorimetry Dynamic Purity Method	29
The Purity Determination of Three Compendial Steroids by Differential Scanning Calorimetry	39
Purity Analysis by Dynamic and Isothermal Step Differential Scanning Calorimetry	50
Thermal Analysis of a Binary System with Distribution Coefficients Much Greater Than 1:2,3 Dimethylnaphthalene/ Anthracene	61

OTHER THERMAL METHODS

Determination of the Purity of Metals by Temperature-Dependent Electrical Properties	75
Cryoscopic Determination of the Purity of Benzene by Calorimetry	90
Purity Determination by Simultaneous Differential Scanning Calorimetry-Thermomicroscopy	107
Determination of Impurities in Minerals by Means of Standardized Differential Thermal Analysis	121

SUMMARY

Summary	141
Index	145