

BOOK REVIEW

HANDBOOK OF THIN-LAYER CHROMATOGRAPHY

(Chromatographic Sciences Series/55)

Edited by: Joseph Sherma and Bernard Fried

Published: Marcel Dekker Inc., New York 1991, 1064pp.

Price: \$165 (USA and Canada)

\$198 (All other countries)

The first third of the book covers extensively the principals of thin layer-chromatography and will be of use in any laboratory from the novice to the expert. The chapter on thin layer radiochromatography gives an overview of the theory as related to various detection methods employed, ie. autoradiography, fluorography, zonal analysis (plate scraping followed by scintillation counting) and various radiation detectors. A comparison of the each detection methodology is given along with their advantages and disadvantages. The use of imaging proportional counting scanners for the detection of radioactivity in thin layer radiochromatography are comprehensively reviewed and form a practical guide to users in order to obtain the maximum efficiency from these detection systems.

The applications sections forms about two thirds of the book and covers a large range of organic compounds. One chapter is dedicated to inorganics and organometallics. Each chapter deals with a particular class of compounds and often provide tabulations of Rf values for the compounds being discussed.

The number of compounds covered is extensive though not exhaustive and forms a useful reference source for thin-layer chromatography systems.

It contains a wealth of expertise from the practitioner point of view and provides many practical tips on the application of thin-layer chromatography to anyone using this analytical technique.

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