



Handbook of Fluorescent Dyes and Probes

R. W. Sabnis

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A COMPLETE, UP-TO-DATE RESOURCE OF INFORMATION ON MORE THAN 150
FLUORESCENT DYES AND PROBES

"Handbook of Fluorescent Dyes and Probes" is the most comprehensive volume available on the subject, covering all the available dyes and probes known to date in the literature for uses in various fields. Top dye expert Dr. Ram Sabnis organizes the compounds alphabetically by the most commonly used chemical name. He presents an easy-to-use reference complete with novel ideas for breakthrough research in medical, biological, chemical, color, material, physical and related allied fields. The ease of use of the handbook is further enhanced by various appendixes provided at the end of the book to conveniently and easily locate the dye as per the reader's need.

This is the first book to give the CAS registry numbers, chemical structure, Chemical Abstract (CA) index name, all other chemical names, Merck Index number, chemical/dye class, molecular formula, molecular weight, physical form, solubility, melting point, boiling point, pKa, absorption maxima, emission maxima, molar extinction coefficient, and quantum yield of fluorescent dyes and probes, as well as to provide access to synthetic procedures (lab scale and industrial scale) of dyes and probes in a single source. This user-friendly handbook also features references on safety, toxicity and adverse effects of dyes and probes on humans, animals and the environment, including:

acute/chronic toxicity aquatic

toxicity carcinogenicity cytotoxicity ecotoxicity genotoxicity hematotoxicity hepatotoxicity immunotoxicity marine toxicity microbial toxicity mutagenicity nephrotoxicity neurotoxicity nucleic acid damage oral toxicity phototoxicity phytotoxicity reproductive toxicity skin toxicity

Containing imaging/labeling applications, biological/medical applications and industrial applications, "Handbook of Fluorescent Dyes and Probes" is a convenient, vital resource for industrial and academic researchers, and a valuable desktop reference for medical professionals, lab supervisors, scientists, chemists, biologists, engineers, physicists, intellectual property professionals, students, and professors.

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