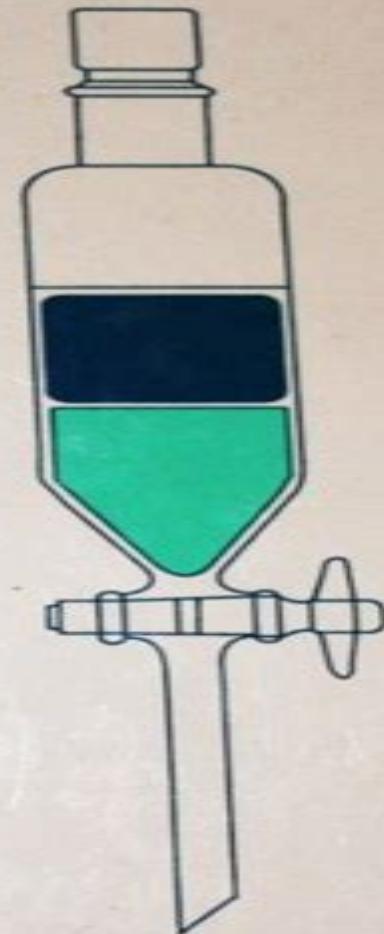


Principles and Practices of Solvent Extraction



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Solvent Extraction Principles And Practice

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a sufficiently pure phosphoric acid feedstock for manufacture to undercut thermal phosphoric acid made from phosphorus As environmental and political pressure led to a collapse in demand for sodium tripolyphosphate in the 1990s the commercial pressures to rationalize at plant and corporate levels rose such that only the fittest survived Phosphoric Acid Purification Uses Technology and Economics the first and only book of its kind to be written on this topic covers the development of purification technologies for phosphoric acid especially solvent extraction describing the more successful processes and setting this period in the historical context of the last 350 years Individual chapters are devoted to the key derivative products which are still undergoing active development as well as to sustainability and how to approach the commissioning of these plants The text is aimed at students of chemistry chemical engineering business and industrial history and to new entrants to the industry Solvent Extraction G. M. Ritcey,1988 Natural Product Extraction Juliana M Prado,Mauricio A Rostagno,2022-07-20 Natural products are used by the food pharmaceutical and cosmetics industries and extraction technologies and potential applications for plant extracts are of interest to many industrial sectors Extraction of natural products in an economic and environmentally friendly way is of high importance to all industries involved The second edition of this book presents an updated holistic in depth view of the more environmentally benign techniques available for the extraction of natural products along with their newest applications and case studies Conventional and emerging extraction techniques are discussed in detail New topics include enzymes pulsed electric energy and on line in line analysis Written for academics and industrialists working in both natural product extraction and green chemistry this new edition provides a valuable update on current trends in the field

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trifluoro 2 4 pentanedione H tfa 1 1 1 5 5 5 hexafluoro 2 4 pentanedione H hfa 1 1 1 2 2 6 6 6 octafluoro 3 5 hexanedione H ofhd 1 1 1 2 2 3 3 7 7 7 decafluoro 4 6 heptanedione H dfhd and 1 1 1 2 2 3 3 heptafluoro 7 7 dimethyl 4 6 octanedione H fod are described Distribution ratio pH curves or percent extracted pH curves are presented for the extraction of copper iron beryllium cobalt zinc or other metal ions employing chloroform or benzene solutions of each ligand and for the effective extraction of divalent and trivalent metals with butanol H tfa Marked enhancement of extraction efficiency of divalent metal ions into chloroform or benzene via isobutylamine adduct formation is also described for most systems The effect of increasing fluorocarbon chain length resulting in increasing ability to extract the divalent metals zinc and cobalt into chloroform or benzene without the aid of adduct formation is discussed and extraction systems with the optimum ligand H dfhd are characterized Syntheses of H dfhd H ofhd and other ligands are reported and the physical properties of these and various other fluorine containing beta diketones and certain toxicity studies are reviewed Preliminary work on the direct reaction of ligands with metals in hydrocarbons is presented Author A Study of the Solvent Extraction of Molybdenum

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