1. Record Nr. UNINA9910830125303321 Autore Speight James G Titolo Environmental analysis and technology for the refining industry [[electronic resource] /] / James G. Speight Hoboken, N.J., : Wiley-Interscience, c2005 Pubbl/distr/stampa **ISBN** 1-280-27748-3 9786610277483 0-470-36186-7 0-471-73985-5 0-471-73984-7 Descrizione fisica 1 online resource (369 p.) Collana Chemical analysis; v. 168 Disciplina 665.5 665.538 Soggetti Petroleum refineries - Waste disposal - Environmental aspects Petroleum waste - Management Lingua di pubblicazione Inglese Materiale a stampa **Formato** Livello bibliografico Monografia Description based upon print version of record. Note generali Nota di bibliografia Includes bibliographical references and index. Nota di contenuto Environmental Analysis and Technology for the Refining Industry; CONTENTS: Preface: PART I PETROLEUM TECHNOLOGY: Chapter 1 Definitions and Terminology; 1.1 The Environment; 1.2 Petroleum; 1.3 Classification; 1.3.1 Chemical Composition; 1.3.2 Correlation Index; 1.3.3 Density; 1.3.4 Carbon Distribution; 1.3.5 Viscosity-Gravity Constant; 1.3.6 UOP Characterization Factor; 1.4 Petroleum Products; 1.4.1 Boiling Range; 1.4.2 Environmental Behavior; 1.5 Refinery Waste; 1.5.1 Chemical Characteristics: 1.5.2 Environmental Behavior: References; Chapter 2 Composition and Properties; 2.1 Composition 2.1.1 Elemental Composition2.1.2 Chemical Composition; 2.1.3 Composition by Volatility; 2.1.4 Composition by Fractionation; 2.2 Properties; 2.2.1 Density and Specific Gravity; 2.2.2 Elemental (Ultimate) Analysis; 2.2.3 Fractionation by Chromatography; 2.2.4 Liquefaction and Solidification; 2.2.5 Metals Content; 2.2.6 Spectroscopic Properties: 2.2.7 Surface and Interfacial Tension: 2.2.8

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Sommario/riassunto

A timely, hands-on guide to environmental issues and regulatory standards for the petroleum industryEnvironmental analysis and testing methods are an integral part of any current and future refining activities. Today's petroleum refining industry must be prepared to meet a growing number of challenges, both environmental and regulatory.Environmental Analysis and Technology for the Refining Industry focuses on the analytical issues inherent in any environmental monitoring or cleanup program as they apply to today's petroleum industry, not only during the refining process, but al