

PAH	Actual # Carbon	EC* (Equivalent Carbon)
Naphthalene	10	11.69
Acenaphthylene	12	15.06
Acenaphthene	12	15.5
Fluorene	13	16.55
Phenanthrene	14	19.36
Anthracene	14	19.43
Fluoranthene	16	21.85
Pyrene	16	20.08
Benzo(a)anthracene	18	26.37
Chrysene	18	27.41
Benzo(b)fluoranthene	20	30.14
Benzo(k)fluoranthene	20	30.14
Benzo(a)pyrene	20	31.34
Indeno(1,2,3-cd)pyrene	22	35.01
Dibenz(a,h)anthracene	22	34.01
Benzo(ghi)perylene	22	34.01

\* Equivalent carbon numbers are assigned by boiling point

# Petroleum Hydrocarbons

**John Burke Sullivan, Gary R. Krieger**



## **Petroleum Hydrocarbons:**

Analysis of Petroleum Hydrocarbons in Environmental Media Wade Weisman, 1998      *Total Petroleum Hydrocarbons* Saranya Kuppasamy, Naga Raju Maddela, Mallavarapu Megharaj, Kadiyala Venkateswarlu, 2019-08-13 The term total petroleum hydrocarbons TPHs is used for any mixture of several hundred hydrocarbons found in crude oil and they represent the sum of volatile petroleum hydrocarbons and extractable petroleum hydrocarbons The petrol range organics include hydrocarbons from C6 to C10 while diesel range organics are C10 C28 hydrocarbons Environmental pollution by petroleum hydrocarbons is one of the major global concerns particularly in oil yielding countries In fact there are more than five million potentially contaminated areas worldwide that represent in general a lost economic opportunity and a threat to the health and well being of humans and the environment Petroleum contaminated sites constitute almost one third of the total sites polluted with chemicals around the globe The land contamination caused by industrialization was recognized as early as the 1960s but less than a tenth of potentially contaminated lands have been remediated due to the nature of the contamination cost technical impracticability and insufficient land legislation and enforcement This book is the first single source that provides comprehensive information on the different aspects of TPHs such as sources and range of products methods of analysis fate and bioavailability ecological implications including impact on human health potential approaches for bioremediation such as risk based remediation and regulatory assessment procedures for TPH contaminated sites As such it is a valuable resource for researchers graduate students technicians in the oil industry and remediation practitioners as well as policy makers      *Fate and Effects of Petroleum Hydrocarbons in Marine Ecosystems and Organisms* Douglas A. Wolfe, 2013-09-24 Fate and Effects of Petroleum Hydrocarbons in Marine Organisms and Ecosystems is a collection of papers presented at the international symposium by the same title held at the Olympic Hotel in Seattle Washington on November 10 12 1976 This book is organized into three parts encompassing 46 chapters Part I deals with the inputs and physical transport processes influencing the distribution and composition of petroleum hydrocarbons in marine systems Part II discusses the bioaccumulation and metabolism of hydrocarbons by marine organisms Part III contains papers that tackle the biological and ecological effects of petroleum exposure in marine systems This book is of great value to marine and environmental scientists and researchers      *Toxicological Profile for Total Petroleum Hydrocarbons (TPH)* G. Daniel Todd, Robert L. Chessin, Joan Colman, 1999 This public health statement tells you about total petroleum hydrocarbons TPH and the effects of exposure      Petroleum Hydrocarbons Alexander A. Petrov, 2012-12-06 Analyses data on the composition structure and formation of various petroleum hydrocarbons the alkanes cycloalkanes and arenes Attention is paid to biological markers compounds that may have preserved the main structural features of the original biogenic molecules Concepts of chemical classification of crude oils are reviewed with respect to the molecular mass distribution of biological markers and the genesis and chemical evolution of petroleum hydrocarbons are discussed      **Natural Attenuation of Fuels and Chlorinated Solvents in the**

**Subsurface** Todd H. Wiedemeier, Hanadi S. Rifai, Charles J. Newell, John T. Wilson, 1999-03-08 The first comprehensive guide to one of today's most innovative approaches to environmental contamination. Natural attenuation is gaining increasing attention as a nonintrusive, cost-effective alternative to standard remediation techniques for environmental contamination. This landmark work presents the first in-depth examination of the theory, mechanisms, and application of natural attenuation. Written by four internationally recognized leaders in this approach, the book describes both biotic and abiotic natural attenuation processes focusing on two of the environmental contaminants most frequently encountered in groundwater: fuels and chlorinated solvents. The authors draw on a wealth of combined experience to detail successful techniques for simulating natural attenuation processes and predicting their effectiveness in the field. They also show how natural attenuation works in the real world using numerous examples and case studies from a wide range of leading edge projects nationwide involving fuel hydrocarbons and chlorinated solvents. Finally, they discuss the evaluation and assessment of natural attenuation and explore the design of long-term monitoring programs. An indispensable reference for anyone working in environmental remediation. *Natural Attenuation of Fuels and Chlorinated Solvents in the Subsurface* is essential reading for scientists and engineers in a range of industries as well as state and federal environmental regulators and professors and graduate students in environmental or chemical engineering.

**Applied Bioremediation of Petroleum Hydrocarbons** Robert E. Hinchee, Jeffrey A. Kittel, H. James Reisinger, 1995 This volume covers bioremediation markets, general technology overviews, and selected case studies of crude oil spills in marine environments, heavy metal co-contamination, steam injection, nitrate-based bioremediation, land farming, nutrient addition, confined aquifers, anaerobic biodegradation, free product recovery, technologies, bioremediation in low permeability soils, and rock biopile treatment. Field scale studies, oily waste organics as soil amendments, BTEX degradation in a biofilter, surfactant aided recovery, mass transport in BTEX removal, electron acceptor selection, and delivery strategies, and electrokinetic moisture and nutrient control in unsaturated soils. *Napa River*, 1975

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
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