



Handbook of Green Chemistry, Green Solvents, Supercritical Solvents: Volume 4

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Green Chemistry is a vitally important subject area in a world where being as green and environmentally sound as possible is no longer a luxury but a necessity. Its applications include the design of chemical products and processes that help to reduce or eliminate the use and generation of hazardous substances.

Supercritical Fluids (SCFs) and Gas-Expanded Liquids (GXLs) are of great interest in green chemistry because either they are nontoxic and non-polluting solvents (like carbon dioxide or water) or they help one to avoid harmful intermediates through new processing routes. This book examines the use of SCFs and GXLs in catalysis, polymerization and many other major reactions and processes where avoiding the use of a hazardous solvent is beneficial for the environment and the economy. The additional control parameters resulting from the unique physico-chemical properties of such solvents are discussed and highlighted with numerous examples from the current literature and applications.

The shift towards being as environmentally-friendly as possible has resulted in the need for this important volume on the topic of supercritical solvents. Edited by the leading experts in the field, Professors Walter Leitner and Phil Jessop, this is an essential resource for anyone wishing to gain an understanding of the world of green chemistry, as well as for chemists, environmental agencies and chemical engineers.

The *Handbook of Green Chemistry* comprises of 9 volumes in total, split into 3 subject-specific sets. The three sets are available individually. All 9 volumes are available individually, too.

Set I: Green Catalysis

- Volume 1: Homogeneous Catalysis
- Volume 2: Heterogeneous Catalysis
- Volume 3: Biocatalysis

Set II: Green Solvents

- Volume 4: Supercritical Solvents
- Volume 5: Reactions in Water
- Volume 6: Ionic Liquids

Set III: Green Processes

- Volume 7: Green Synthesis
- Volume 8: Green Nanoscience
- Volume 9: Designing Safer Chemicals

The *Handbook of Green Chemistry* is also available as **Online Edition**.

Podcasts

Listen to two podcasts in which Professor Paul Anastas and Journals Editor Paul Trevorrow discuss the origin and expansion of Green Chemistry and give an overview of *The Handbook of Green Chemistry*.

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