

CRC Press 082479995X

Enzymes in Detergency (Surfactant Science)

Publisher: CRC Press

Model: ISBN-10: 082479995X

INTRODUCTION TO THE PUBLICATION

This comprehensive volume, "Enzymes in Detergency (Surfactant Science)", provides an integrated overview of the application of enzymes within household detergents. It covers the entire spectrum from initial product development and manufacturing processes to critical aspects of safety and health-related considerations.

The text delves into the major classifications of enzymes, exploring their intricate structure-function relationships. It also examines life cycle analyses, advanced protein-engineering techniques, and the fundamental mechanisms by which these enzymes contribute to cleaning. Furthermore, the book discusses the historical, current, and prospective future applications of enzymes in detergency.

surfactant science series
volume **69**

ENZYMES IN DETERGENCY



edited by
Jan H. van Ee
Onno Misset
Erik J. Baas

This image displays the front cover of the book 'Enzymes in Detergency'. The cover features the title prominently, along with the series name 'surfactant science series' and 'volume 69'. A central image on the cover shows a close-up of a 'ONE DIME' coin alongside numerous small, granular particles, likely representing enzymes or detergent components. The editors' names, Jan H. van Ee, Onno Misset, and Erik J. Baas, are listed at the bottom.

KEY TOPICS COVERED

This publication systematically addresses several critical areas:

- Integrated overview of enzyme utilization in household detergents.
- Detailed examination of product development and manufacturing processes for enzyme-based detergents.
- Analysis of safety and health-related issues pertinent to enzyme use.
- Classification and characteristics of major enzyme types.
- Exploration of enzyme structure-function relationships.
- Discussion of life cycle analyses for enzymes in detergent applications.
- Insights into protein-engineering techniques relevant to detergent enzymes.
- Elucidation of cleaning mechanisms facilitated by enzymes.
- Review of past, present, and future applications of enzymes in detergency.

HOW TO EFFECTIVELY USE THIS BOOK

To maximize your learning from "Enzymes in Detergency," consider the following recommendations:

1. **Sequential Reading:** While sections can be read independently, a sequential reading from beginning to end is recommended for a foundational understanding of the subject matter.
2. **Cross-Referencing:** Pay attention to internal references within the text that point to related discussions in other chapters. This helps in building a holistic understanding.
3. **Review Questions/Exercises:** If provided, engage with any review questions or exercises to test your comprehension of the material.
4. **Glossary/Index:** Utilize the glossary for definitions of technical terms and the index to quickly locate specific topics of interest.

NAVIGATING THE CONTENT

The book is structured to guide readers through complex scientific and industrial concepts. Each chapter focuses on a specific aspect of enzymes in detergency, building upon previous knowledge. Key concepts are often introduced with foundational principles before moving into more advanced applications and implications. Readers are encouraged to use the detailed headings and subheadings to navigate directly to areas of specific interest or to review particular topics. The logical flow of information aims to facilitate both in-depth study and quick reference.

CARE AND PRESERVATION

To ensure the longevity and readability of your hardcover copy of "Enzymes in Detergency," please follow these care guidelines:

- **Storage:** Store the book in a cool, dry place away from direct sunlight and excessive humidity to prevent warping, fading, or mold growth.
- **Handling:** Handle the book with clean hands to avoid transferring oils and dirt to the pages and cover.
- **Page Turning:** Turn pages carefully to prevent tearing or creasing. Avoid folding page corners to mark your place; use a bookmark instead.
- **Protection:** If transporting, place the book in a protective bag or sleeve to prevent damage to the cover.

and spine.

UNDERSTANDING COMPLEX CONCEPTS

Some sections of this book may contain highly technical or specialized information. If you encounter difficulties in understanding certain concepts, consider the following:

- **Re-read:** Sometimes, re-reading a challenging paragraph or section can clarify its meaning.
- **Contextualize:** Refer back to previous chapters or the introduction to understand the broader context of the topic.
- **External Resources:** Consult supplementary academic resources, scientific journals, or online databases for additional explanations or different perspectives on the subject matter.
- **Discussion:** If possible, discuss the concepts with peers or experts in the field.

PUBLICATION SPECIFICATIONS

Attribute	Value
Publisher	CRC Press
Publication Date	April 1, 1997
Edition	1st
Language	English
Print Length	404 pages
ISBN-10	082479995X
ISBN-13	978-0824799953
Item Weight	1.6 pounds
Dimensions	6 x 0.94 x 9.28 inches
Part of Series	Surfactant Science

AUTHORS AND EDITORS

This authoritative publication was brought together by the expertise of:

- **Jan H. van Ee** (Editor)
- **Onno Misset** (Editor)

SERIES INFORMATION

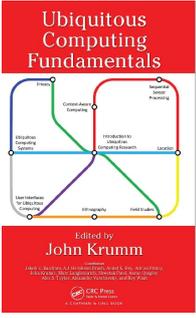
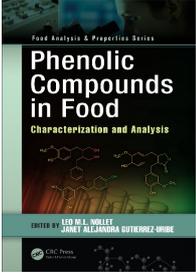
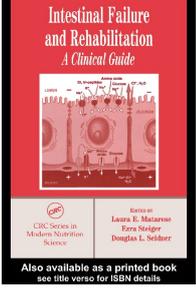
"Enzymes in Detergency" is an integral part of the distinguished **Surfactant Science** series, specifically Volume 69. This series is known for its comprehensive coverage of various topics within surfactant chemistry and its applications.

For more information on the series, you may refer to the [Surfactant Science series page](#).

WARRANTY AND SUPPORT INFORMATION

As an academic publication, "Enzymes in Detergency (Surfactant Science)" does not typically come with a product warranty or direct technical support in the manner of consumer electronics or appliances. For inquiries regarding content, errata, or academic use, please refer to the publisher, CRC Press, or consult academic libraries and institutions.

Related Documents - 082479995X

	<p>Ubiquitous Computing Fundamentals: A Comprehensive Guide</p> <p>Explore the foundational concepts and research areas of ubiquitous computing with this comprehensive guide. Covering systems, privacy, user experience, and sensor data, it's ideal for researchers and students.</p>
	<p>Phenolic Compounds in Food: Characterization and Analysis - Scientific Reference</p> <p>Explore the characterization and analysis of phenolic compounds in food with this comprehensive scientific reference. Covers analytical methods, compound types, antioxidant properties, and applications across various food matrices. Edited by Leo M.L. Nollet and Janet Alejandra Gutierrez-Urbe, published by CRC Press.</p>
	<p>Intestinal Failure and Rehabilitation: A Clinical Guide</p> <p>A comprehensive clinical guide for nutritional scientists and healthcare professionals, detailing the diagnosis, management, and rehabilitation of intestinal failure. Explores key topics from GI physiology to advanced treatment strategies.</p>
	<p>Handbook of Physical-Chemical Properties and Environmental Fate for Organic Chemicals - Second Edition</p> <p>Comprehensive second edition handbook detailing physical-chemical properties and environmental fate of over 1000 organic chemicals, essential for environmental scientists and engineers. Includes data on hydrocarbons, halogenated compounds, and more.</p>

11 MINNESOTA HISTORICAL SOCIETY PRESS

TEACHER'S GUIDE

Rings of Heartwood: Poems on Growing
 Molly Beth Griffin
 Illustrations by David McPherson

Grades 4-6

Grades 4-6 students will enjoy the colorful illustrations and the poems in this book. The poems are about growing and nature. The book is a great resource for teachers and students alike. It is a beautiful book that will inspire students to write their own poems about growing and nature.

DISCUSSION PROMPTS AND ACTIVITIES

- Read the book aloud to your students. Discuss the poems and the illustrations.
- Ask students to write their own poems about growing and nature.
- Have students draw pictures of the things they are growing.
- Have students write letters to the author, Molly Beth Griffin.
- Have students write letters to the illustrator, David McPherson.
- Have students write letters to the publisher, Minnesota Historical Society Press.
- Have students write letters to the editor of the book.
- Have students write letters to the author, Molly Beth Griffin, and the illustrator, David McPherson, and the publisher, Minnesota Historical Society Press.

MINNESOTA HISTORICAL SOCIETY PRESS

[Rings of Heartwood Teacher's Guide: Poems on Growing](#)

A teacher's guide for Molly Beth Griffin's 'Rings of Heartwood: Poems on Growing', featuring discussion prompts, activities, and advanced projects for educators. Explore themes of growth and nature.

11 MINNESOTA HISTORICAL SOCIETY PRESS

TEACHER'S GUIDE

The Naming of Aki
 Thomas Peacock
 Allison Horner
 Illustrations by David McPherson

Grades 4-6

The Naming of Aki is a retelling of an Ojibwe story by Thomas Peacock and Allison Horner. It is a beautiful book that will inspire students to write their own stories about growing and nature.

DISCUSSION PROMPTS AND ACTIVITIES

- Read the book aloud to your students. Discuss the story and the illustrations.
- Ask students to write their own stories about growing and nature.
- Have students draw pictures of the things they are growing.
- Have students write letters to the author, Thomas Peacock, and the illustrator, David McPherson.
- Have students write letters to the publisher, Minnesota Historical Society Press.
- Have students write letters to the editor of the book.
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MINNESOTA HISTORICAL SOCIETY PRESS

[The Naming of Aki Teacher's Guide - Educational Resources](#)

Teacher's guide for 'The Naming of Aki,' a retelling of an Ojibwe story by Thomas Peacock and Allison Horner. Includes discussion prompts and educational resources from Minnesota Historical Society Press.