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(SURFACTANT SCIENCE

SERIES) 1st Edition by

Jiding Xia (Author)

ISBN-13:

978-0824700041

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Description "Describes preparation techniques of protein-based surfactants (PBS) in the laboratory by a variety of chemical and

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enzymatic means,
production by using

different types of
amino acids, and

marketplace

applications of PBS in

medical and personal
care products,

detergents, cosmetics,
antimicrobial agents,

and foods."

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(PBS) in the laboratory by a variety of

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care products,

detergents, cosmetics,

antimicrobial agents,

and foods."

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surfactants : synthesis,

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properties, and

applications. [Ifendu A

Nnanna; Jiding Xia;] --

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surfactants (PBS) in the

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Synthesis

Physicochemical ...

The book describes the

synthesis of

protein-based

surfactants, their

physicochemical

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Surfactants

properties, potential applications, and significant developments.

Numerous research projects have been carried out with this class of surfactants, especially in recent years, which is reflected in the great number of publications.

**Book Review:
Protein-Based
Surfactants.
Synthesis ...**

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Synthesis

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Common amino acids used for their synthesis

are glutamic acid,

serine, proline, aspartic

acid, glucine, arginine,

alanine, leucine and

protein hydrolysates.

Surfactants of this

subclass can be

prepared chemically,

enzymatically and

chemoenzymatically;

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however, chemical synthesis has been found more economically feasible for their production.

Applications

**Synthesis,
chemistry,
physicochemical
properties and ...**

Amino acid based surfactants have been widely used as alternative to classical surfactants due to their interesting physicochemical

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Synthesis

Physicochemical

Properties And

Applications

Surfactant

critical micelle

concentration (CMC)

and Krafft temperature

is an important aspect

in determining their

use in detergents or ...

**[PDF] Synthesis and
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properties of non ...**

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Amino acid-based surfactants are a class of surfactants derived from a hydrophobe source coupled with simple amino acids, mixed amino acids from synthesis or from protein hydrolysates, and as such can be derived solely from renewable resources.

**Synthesis,
chemistry,
physicochemical
properties and ...**

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The synthesis of a homologous series of alanine-based surfactants, namely sodium salts of n-alkan esulfonamido-2-propan oic acids in which n- alkane is n-dodecane, n-tetradecane, n-hexadecane, and n- octadecane having the formula $RSO_2NHCH(CH_3)COO-Na^+$, is described. The starting materials used were a mixture of secondary positional isomers of n-

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alkanesulfonyl
chlorides obtained by

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Properties And

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Properties of

Alanine-Based ...

The synthesis of a homologous series of alanine-based surfactants, namely sodium salts of n-alkan esulfonamido-2-propan oic acids in which n- alkane is n-dodecane, n-tetradecane,

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Surfactants, and ...

Synthesis

**Synthesis and
Physicochemical
Properties of**

Alanine-Based ...

The application of lipases to the synthesis of amino acid-based surfactants was investigated. Low yields (2-9%) were obtained in the acylation of free amino acids, such as L-serine and L-lysine, as well as their ethyl esters and

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amides with fatty acids, owing in part to low miscibility of the reactants. When the N-carbobenzyloxy (Cbz)-L-amino acids were used in an effort to ...

Chemo-enzymatic synthesis of amino acid-based surfactants ...

Oleic acid-based amphiphilic surfactants were synthesized using three amino acids namely isoleucine (Ile),

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phenylalanine (Phe),
and proline (Pro)

containing aliphatic,
aromatic and alicyclic
moiety as polar head

group. N -Oleoyl amino
acids were prepared
using Schotten-

Baumann reaction by
reacting sodium salt of
amino acid with oleoyl
chloride.

**Synthesis, surface
and micellar
properties of sodium
N ...**

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Synthesis

Physicochemical
Properties And
Applications

The synthesized aminoacid based surfactants are in their acidic form, having free carboxylic groups.

Surfactant
Science

Since the surface activity of surfactants is ensured by the presence of both

hydrophilic and hydrophobic parts, the aminoacid based surfactants were neutralized with a NaOH solution in order to provide the affinity for water.

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ASPECTS REGARDING THE SYNTHESIS AND SURFACE PROPERTIES OF ...

This work presents a synthesis method for new surfactants based on lactose. The compounds obtained belong to the homologous series of O- β -D-Galactopyranosyl-(1 \rightarrow 4)-N-alkyl-(3-sulfopropyl)-D-glucosamine hydrochloride,

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containing 12 and 14 carbon atoms in the alkyl chain, and they may serve as an example of cationic surfactants. The newly synthesized compounds exhibit good surface properties ...

Synthesis, Surface and Antimicrobial Activity of New ...

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Properties and

Applications. ... The synthesis and basic physico-chemical

properties have also been included. View.

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Synthesis and physicochemical properties of non-ionic and ...

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2. Physicochemical

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Properties of

Polyampholyte
Cryogels. As seen in
Table 1, polyampholyte
cryogels can be

comprised of primary,
secondary and tertiary
amine, or quaternary
ammonium groups on

the one hand, and
carboxylic, sulfonic
acid or carboxylate,
sulfonate moieties on
the

other. Polyampholyte
cryogels, analogous to
linear polyampholytes

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[], can be defined as

pH-dependent

“annealed ...

Physicochemical

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