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Methodenentwicklung zur Analytik von Celluloseethern auf verschiedenen strukturellen Ebenen



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Methodenentwicklung Analytik Celluloseethern Verschiedenen Strukturellen

Julia Cuers



Methodenentwicklung Analytik Celluloseethern Verschiedenen Strukturellen:

Analytik der Substituentenverteilung von Celluloseethern auf verschiedenen strukturellen Ebenen Julia Cuers, 2016-06-01 Die Verteilung der Substituenten in Celluloseethern bestimmt neben dem Substitutionsgrad und der Molmasse maßgeblich die physikochemischen Eigenschaften dieser Polysaccharidderivate. Um die Beziehungen zwischen Eigenschaften und Struktur besser verstehen zu können, werden robuste Analysenmethoden benötigt, die verlässliche Daten zu den Substituentenverteilungen auf den verschiedenen strukturellen Ebenen liefern. Für die Analytik solcher Derivate auf Oligomerebene stellt die Massenspektrometrie MS eine zentrale Methode dar. In dieser Arbeit wurde zunächst an dem einfachen Modell einer O-Me-O-Me-D3-cellulose eine automatisierbare HPLC-ESI-MS-Methode entwickelt, die in Kapitel 3.1 beschrieben wird. Neben den einfachen Methylcellulosen widmen sich Kapitel 3.2 und 3.3 der Analytik von chemisch diverseren Derivaten wie den höher alkylierten 3-O-Ethyl-O-Propyl-cellulosen sowie den noch komplexeren Hydroxypropylmethylcellulosen. Hier werden die Probenpräparation sowie die massenspektrometrischen Messparameter thematisiert. Abschließend wird in Kapitel 4 ein zukunftsweisender Ansatz zur Fraktionierung intakter Polymerketten von Methylcellulose nach Derivatisierung der freien OH-Gruppen zu 4-Methoxybenzoaten vorgestellt.

Cellulose Science and Technology Thomas Rosenau, Antje Potthast, Johannes Hell, 2018-12-27 This book addresses both classic concepts and state of the art technologies surrounding cellulose science and technology. Integrating nanoscience and applications in materials, energy, biotechnology and more, the book appeals broadly to students and researchers in chemistry, materials, energy and environmental science. Includes contributions from leading cellulose scientists worldwide with five Anselm Payen Cellulose Award winners and two Hayashi Jisuke Cellulose Award winners. Deals with a highly applicable and timely topic considering the current activities in the fields of bioeconomics, biorefineries and biomass utilization. Maximizes readership by combining fundamental science and application development.

Methodenentwicklung zur Analytik von Celluloseethern auf verschiedenen strukturellen Ebenen Kristin Voiges, 2015-07-07 Celluloseether besitzen z. B. in der Lebensmittelindustrie eine große wirtschaftliche Bedeutung, da ihre Eigenschaften gut an bestimmte Anforderungen angepasst werden können. Um die Struktur-Eigenschafts-Beziehungen untersuchen zu können, wurden in dieser Arbeit bestehende Analysemethoden überprüft und optimiert sowie neue Methoden entwickelt. Zum einen wurde die etablierte Alditolacetatmethode zur Bestimmung der mittleren Substituentenverteilung hinsichtlich Zeitersparnis, Reproduzierbarkeit und Genauigkeit ihrer Ergebnisse optimiert und die Anwendbarkeit überprüft. Zum anderen wurde die saure Hydrolyse von Methylcellulosen auf ihre Zuverlässigkeit als Voraussetzung für die Oligomeranalyse mittels quantitativer Massenspektrometrie untersucht. Hierzu wurden die einzelnen Geschwindigkeitskonstanten der Reaktion bestimmt und der Einfluss von Substituenten, Lösungsmittel und Mikrowellenheizung auf die Selektivität der Reaktion geprüft. Außerdem sollten die Heterogenitäten 1. und 2. Ordnung über eine direkte Methode entkoppelt voneinander bestimmt werden. Hierzu wurde eine Methode entwickelt, bei der mittels Ultraschall

intakte reduzierende Enden generiert sowie anschließend markiert wurden und deren Oligomere nach Partialhydrolyse von den ungelabelten getrennt analysiert wurden

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