

有机化学课程介绍

一、中文简介：

系统介绍有机化学初步。各官能团结构、性质、制备及其相互转换和有机化学基本原理组成。涉及的官能团有：烷、烯、炔、卤代烃、醇、酚、醚、醛、酮、醌、羧酸、羧酸衍生物、胺、硝基化合物、杂环、氨基酸、碳水化合物等；涉及的基本原理有：立体化学、结构解析、自由基取代、亲电加成、亲电取代、亲核加成和亲核取代等机理初步。

二、英文简介：

Introduction to Organic Chemistry, including the structure, property, preparation, and transformation of various functional groups, such as alkane, alkene, alkyne, alkyl halide, alcohol, phenol, ether, aldehyde, ketone, quinone, carboxylic acid and its derivatives, nitro, and amine. Heterocyclic compounds, carbohydrates, and amino acids are involved. Some basic principles are presented, including stereochemistry, spectroscopy, radical substitution, electrophilic addition, electrophilic substitution, nucleophilic addition, and nucleophilic substitution.