



Reaktionen in der Organischen Chemie 1

Alkane

*nucleophile Substitutionen



primäre Substitution



sekundäre Substitution



Radikale

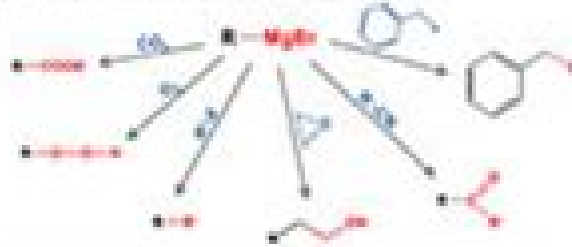
Teilchen, die mindestens ein freies Elektronenpaar haben und oft negativ geladen sind (Anionen). Sie sind stark reaktiv und können leicht eine chemische Reaktion eingeleiten. Sie können unter Verwendung eines Radikalengenerators eine katalytische Wirkung in einem geschlossenen System ausstrahlen.

Substitution

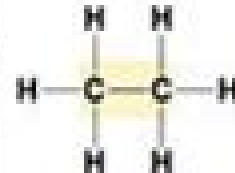
Radikalische

Reaktionen von Grignard-Verbindungen

Grignard-Verbindungen reagieren mit Substraten, welche einen Protonenakzeptor (z.B. Wasser, Alkohole, Thiole, Carbonsäuren, Ester).



Wichtig: Die radikalische Substitution findet bevorzugt an sekundären und tertiären Kohlenstoff-Atomen statt (abhängig von der Reaktivität des Radikals).



Grignard-Synthese

Mercaptan-Synthese*



Hydroxy-Substitution*



Finkelstein-Reaktion* (Halogen austausch)



Ammonolyse*

Kolbe-Nitrilsynthese*

als Nebenprodukt entstehen Nitrile R-CN

Halogenierung (radikalische Substitution)

Wurtz-Reaktion



Eliminierung



Williamson-Ethersynthese*



Die radikalische Substitution funktioniert auch mit Cl_2 und I_2 . Hier reagiert es häufig, dass zwischen der Halogenierung des Alkans steht.

NaOH / KOH Verbindungen, die in der Reaktion umgewandelt werden können.

Reaktionsmechanismen dieser Stoffgruppen sind auf einer anderen Übersicht dargestellt.

Radikale Und Radikationen In Der Organischen Synthese

**V. Tamara Perchyonok, Ioannis
Lykakis, Al Postigo**



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