

protecting groups in organic pdf

A protecting group (PG) is a molecular framework that is introduced onto a specific functional group (FG) in a poly-functional molecule to block its reactivity under reaction conditions needed to make modifications elsewhere in the molecule. 1:56 PM 4. Qualities of a Good Protecting Group in Organic Synthesis.

PROTECTING GROUPS IN ORGANIC SYNTHESIS

Protecting Groups Hydroxyl Protecting Groups 25 Protection of 1,2 & 1,3-diols 1,3-Benzylidene formation is usually favored over 1,2-Benzylidene 3. Benzylidene acetals: Benzylidenes are usually hydrogenolyzed slower than benzyl ethers or olefins $\text{OO R}_1\text{R}_2 \text{HOOH R}_1\text{R}_2$ Acid CHO Ph CH(OMe)_2 or Cleavage: Acid hydrolysis or hydrogenolysis

Protecting Groups - IIT Bombay

TBDMS is the most widely used as silicon protecting groups. The rate of silylation of alcohol with TBSCl follows the trend: $1^\circ\text{ROH} > 2^\circ\text{ROH} > 3^\circ\text{ROH}$. This suited for the selective protection of the $-\text{CH}_2\text{OH}$ group in methyl glycosides.

Chapter 3. The Concept of Protecting Functional Groups

Protecting Groups in Organic Synthesis-1 Ready. Protecting groups are a sad fact of synthetic chemistry They are usually needed, but rarely desired Many syntheses have stalled because of trouble putting on or removing protecting groups 4 basic questions to address when choosing a P.G.: 1.

Protecting Groups in Organic Synthesis-1 Ready

Protecting Groups T.W. Greene & P.G.M. Wuts, Protective Groups in Organic Synthesis (2nd edition) J. Wiley & Sons, 1991. P. J. Kocienski, Protecting Groups, Georg Thieme Verlag, 1994 1. Hydroxyl groups 2 Ketones and aldehydes 3. Amines 4. Carboxylic Acids - Protect functional groups which may be incompatible with a set of reaction conditions

PROTECTING GROUPS 57 Smith: Chapter 7

Protective Groups In Organic Synthesis. ... Reactions involving selective protection of functional groups such as alcohols, phenols, thiols and amines and their deprotections are common tools in the multi-step synthesis of complex natural products. 28, 29 Boric acid has been used as a green, selective and recyclable catalyst for protection...

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Protecting Groups in Organic Synthesis The Qualities of a Good Protecting Group 10 A good protecting group should be such that: (a) It should be readily and selectively introduced to the desired functional group in a poly-functional molecule. (b) It should be resistant (inert) to the reagents employed in the

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Reactions >> Protecting Groups >> Stability Protecting Groups Stability data for the most frequently used protective groups, protection and deprotection methods

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