













Common Abbreviations and Terms

Functional Groups

Common abbreviations and terms (carbon chains, functional groups)

Me	$-\text{CH}_3$	Methyl	Ac		acetyl
Et	$-\text{CH}_2\text{CH}_3$	Ethyl	Ts		toluenesulfonyl (tosyl)
Pr	$-\text{CH}_2\text{CH}_2\text{CH}_3$	Propyl	Ms		methanesulfonyl (mesyl)
Bu	$-\text{CH}_2\text{CH}_2\text{CH}_2\text{CH}_3$	Butyl	Bs		benzenesulfonyl (benzyl)
i-Pr		isopropyl	Allyl		
i-Bu		isobutyl	Vinyl		
n-Bu		n-butyl	Propargyl		
Ph (C_6H_5-)		phenyl			
Bn ($\text{C}_6\text{H}_5\text{CH}_2-$)		benzyl			

LG leaving group

Nu: nucleophile

B: base

R any carbon substituent

Ar an aromatic substituent

N- denotes a substituent directly bound to nitrogen

EWG electron withdrawing group

Acyl Carbonyl 

alkane



alkene



alkyne



benzene ring (phenyl)



alkyl halide



alcohol



ether



hemiacetal



acetal



epoxide



aldehyde



ketone



ester



carboxylic acid



amide



acid chloride



anhydride



amine



imine



enamine



oxime



hydrazone



nitrile



cyanohydrin



azide



sulfide (thioether)



thiol



disulfide



sulfoxide



sulfone



sulfonic acid



sulfonyl chloride

Functional Groups And Organic Reactions Guided Answers

Judith Potter, Peter Cann



Functional Groups And Organic Reactions Guided Answers:

Organic Chemistry, Student Study Guide and Solutions Manual David R. Klein, 2017-01-04 This is the Student Study Guide and Solutions Manual to accompany Organic Chemistry 3e Organic Chemistry 3rd Edition is not merely a compilation of principles but rather it is a disciplined method of thought and analysis Success in organic chemistry requires mastery in two core aspects fundamental concepts and the skills needed to apply those concepts and solve problems Readers must learn to become proficient at approaching new situations methodically based on a repertoire of skills These skills are vital for successful problem solving in organic chemistry Existing textbooks provide extensive coverage of the principles but there is far less emphasis on the skills needed to actually solve problems

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particle like properties and defines the wavelength frequency and speed of light The final chapter deals with the fundamental components of air and the classification of materials formed in natural waters This book is a valuable resource for chemistry students lecturers and instructors

Study Guide and Solutions Manual for Organic Chemistry Susan McMurry, 1992

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