Organic Chemistry Reagent Guide

Common Abbreviations and Terms

Common abbreviations and terms (carbon chains, functional groups)

Me	$-CH_3$	*Methyl*
Et	$-CH_2CH_3$	*Ethyl*
Pr	$-CH_2CH_2CH_3$	*Propyl*
Bu	$-CH_2CH_2CH_2CH_3$	*Butyl*
i-Pr	CH_3CHCH_3	*isopropyl*
i-Bu	$CH_3CHCH_2CH_3$	*isobutyl*
t-Bu	CH_3CCH_3 (CH$_3$)	*t-butyl*
Ph (C_6H_5-)		*phenyl*
Bn ($C_6H_5CH_2-$)		*benzyl*

Ac		*acetyl*
Ts		*toluenesulfonyl (tosyl)*
Ms		*methanesulfonyl (mesyl)*
Bs		*benzenesulfonyl (bosyl)*
Allyl		
Vinyl		
Propargyl		

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	

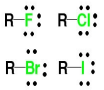
Functional Groups


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


nitro


sulfide (thioether)


thiol


disulfide


sulfoxide

sulfone

sulfonic acid

sulfonyl chloride