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Organic Chemistry Reagent Guide

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## Common Abbreviations and Terms

### Common abbreviations and terms (carbon chains, functional groups)

Me	-CH <sub>3</sub>	<i>Methyl</i>
Et	-CH <sub>2</sub> CH <sub>3</sub>	<i>Ethyl</i>
Pr	-CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	<i>Propyl</i>
Bu	-CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	<i>Butyl</i>
<i>i</i> -Pr		<i>isopropyl</i>
<i>i</i> -Bu		<i>isobutyl</i>
<i>t</i> -Bu		<i>t-butyl</i>
Ph (C <sub>6</sub> H <sub>5</sub> -)		<i>phenyl</i>
Bn (C <sub>6</sub> H <sub>5</sub> CH <sub>2</sub> -)		<i>benzyl</i>

Ac		<i>acetyl</i>
Ts		<i>toluenesulfonyl (tosyl)</i>
Ms		<i>methanesulfonyl (mesyl)</i>
Bs		<i>benzenesulfonyl (bosyl)</i>
Allyl		
Vinyl		
Propargyl		

LG	leaving group
Nu:	nucleophile
B:	base
R	any carbon substituent
Ar	an aromatic substituent

<i>N</i> -	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			

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