

COMMON NUCLEOPHILES AND THEIR PRODUCTS



NUCLEOPHILE	PRODUCT
H_2O OR $\bar{O}H$	$R'-OH$ (ALCOHOL)
ROH OR RO^-	$R'-OR$ (ETHER)
$R-\overset{O}{\parallel}C-OH$ OR $R-\overset{O}{\parallel}C-O^-$	$R'-O-\overset{O}{\parallel}C-R$ (ESTER)
NH_3	$R'-\overset{+}{N}H_3$ OR $R'-NH_2$ (AMINE)
$R-NH_2$	$R'-\overset{+}{N}H-R$ (AMINE)
R_2NH	$R'-\overset{+}{N}R_2$ (AMINE)
N_3^- ($\bar{N}=\overset{+}{N}=\bar{N}$)	$R'-N_3$ ($R'-N=\overset{+}{N}=\bar{N}$) (AZIDE)
H_2S OR HS^-	$R'-SH$ (THIOL)
$\bar{C}N$ ($\bar{C}\equiv N$)	$R'-C\equiv N$ ($R'-CN$) (NITRILE)
H^-	$R'-H$ (ALKANE)
Cl^-	$R'-Cl$ (CHLORIDE)
Br^-	$R'-Br$ (BROMIDE)
I^-	$R'-I$ (IODIDE)