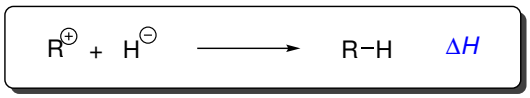
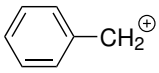
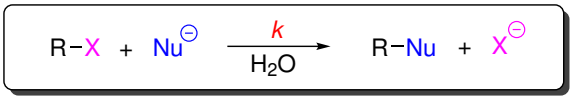
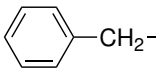
Stabilita kationtů – afinita k hydridovému aniontu



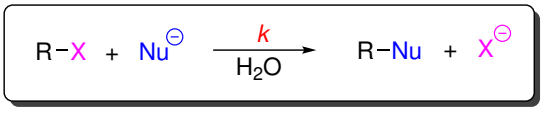
	ΔH (kJ/mol)		ΔH (kJ/mol)
$CH_3^{\oplus}$	–312	$H_2N-CH_2^{\oplus}$	–218
$CH_3CH_2^{\oplus}$	–273	$HO-CH_2^{\oplus}$	–243
$CH_3CH_2CH_2^{\oplus}$	–266	$H_2C=CH-CH_2^{\oplus}$	–256
$H_3C-\overset{\oplus}{C}H-CH_3$	–246	$H_2C=CH^{\oplus}$	–287
$H_3C-\overset{\oplus}{C}(CH_3)-CH_3$	–231		–234

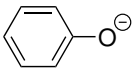
Efekt sterické zábrany na rychlost S_N2



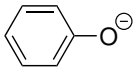
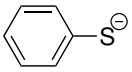
	k/k_0		k/k_0
H_3C-	1	$(H_3C)_2CHCH_2CH_2-$	0,00000013
CH_3CH_2-	0,33		
$CH_3CH_2CH_2-$	0,013	$H_2C=CH-CH_2-$	1,3
$(H_3C)_2CH-$	0,0008		4,0

Nukleofilita vs bazicita



	pK_a	k/k_0
ClO_4^-	–10	0,0
H_2O	0,0	1,0
$H_3C-C(=O)-O^-$	+4,8	900
	+10	2.000
HO^-	+14,0	12.000

	pK_a	k/k_0
I^-	–10	120.000
Br^-	–9	5.000
Cl^-	–7	1.100
F^-	+3	0,0

	+10	2.000
	+6,4	50.000.000