

Fig. 1. Dissociation some aren diazonium cations

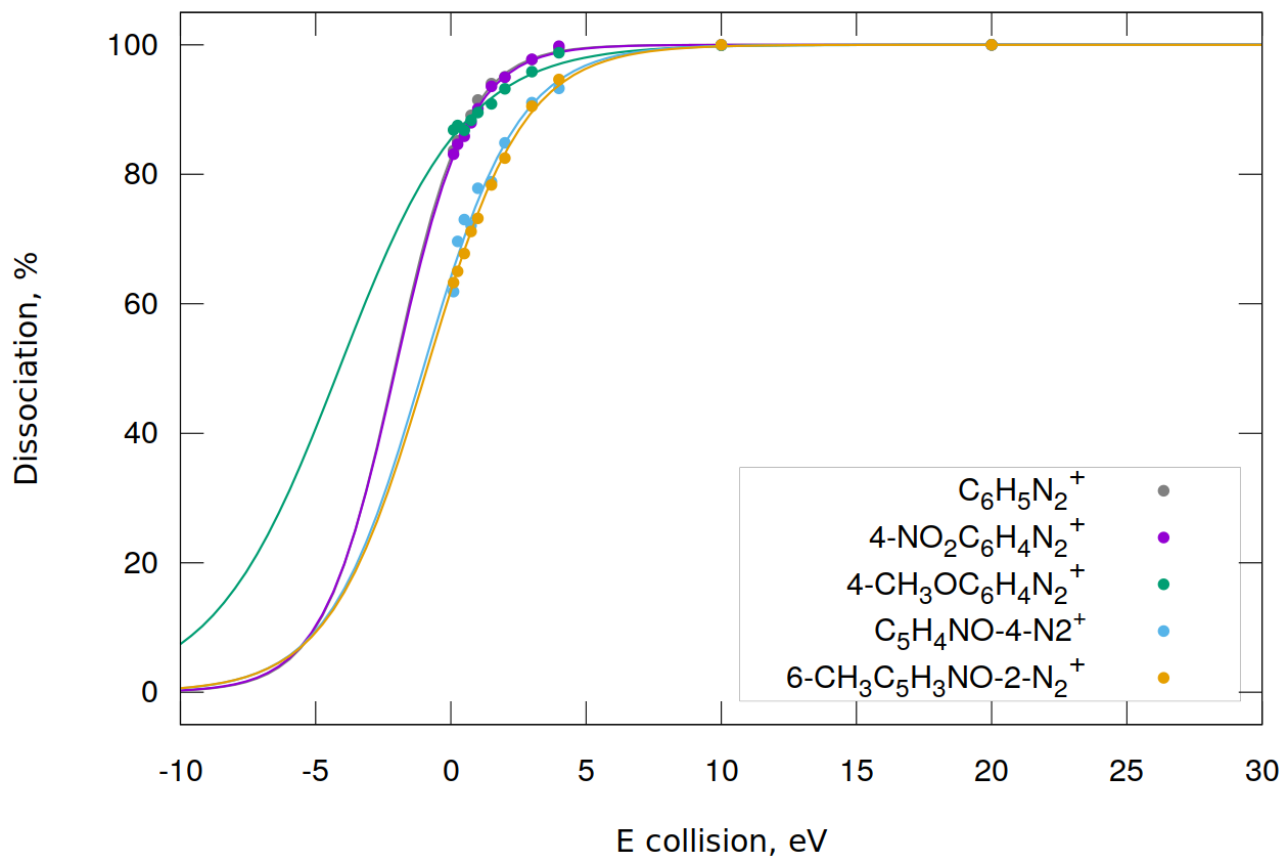


Fig. 2. Dissociation some NO-pyridines and aren diazonium cations

$$K_D = \frac{[Ar^+]}{[ArN_2^+]} = \exp\left(B + \frac{E_{collision}}{\Delta G}\right) \quad (1)$$

Table 1.

Parameters of approximation equation (1) for some diazonium salts

Nº	Diazonium salts	ΔG , eV	B
1.	$C_6H_5N_2^+ TfO^-$	1.33	1.56
2.	$2-NO_2C_6H_4N_2^+ TfO^-$	1.71	-0.84
3.	$3-NO_2C_6H_4N_2^+ TfO^-$	1.60	1.83
4.	$4-NO_2C_6H_4N_2^+ TfO^-$	1.36	1.50
5.	$4-NO_2C_6H_4N_2^+ TsO^-$	1.42	1.56
6.	$4-NO_2C_6H_4N_2^+ BF_4^-$	1.27	1.56
7.	$4-CH_3OC_6H_4N_2^+ TfO^-$	2.33	1.77
8.	$4-BrC_6H_4N_2^+ TfO^-$	1.77	0.80
9.	$4-HCO_2C_6H_4N_2^+ TfO^-$	1.16	2.63
10.	$4-Br-2-HCO_2C_6H_3N_2^+ TfO^-$	2.12	-0.07
11.	$C_5H_4NO-4-N_2^+ TfO^-$	1.76	0.58
12.	$6-CH_3C_5H_3NO-2-N_2^+ TfO^-$	1.80	0.49
13.	$4-Br-2-NO_2C_6H_3N_2^+ TfO^-$	2.11	-0.21
14.	$C_{10}H_7-2-N_2^+ TfO^-$	1.29	2.92