

## Diffusion of anorganic molecules on metals

System	$E_m$ [meV]	$E_d$ [meV]	$D_0$ [cm <sup>2</sup> /s]	$\theta$	T [K]	Method	Ref.	$E_b$ [eV]	Ref.
<b>NH<sub>3</sub>/Re(001)</b>		150 ± 30	$2.8 \times 10^{-3}$	0.12	110 - 140	SHD	[1]	0.9	[2]
<b>NO/Pt(111)</b>		510 ± 50	$2.4 \times 10^{-3}$	~ 0.1	310 - 360	HAS	[3]	1.3	[3]
<b>O<sub>2</sub>/Ag(110)</b>	220 ± 50    ~ 300 ⊥		$4 \times 10^{-3\pm3}$ { $4 \times 10^{-3}$ }	monomer	60 - 100	STM	[4]	0.4 - 0.8	[5-7]

$\theta$  is given in number of ad molecules per substrate atom; estimates from original authors in {};  
|| is the [1-10] and ⊥ the [001] direction on a fcc(110) substrate.

### References

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