

Table 1. Activation energies and enthalpies of formation of surface reaction estimated by calculation.

Surface Structure before reaction	Reactant	Surface Structure after reaction	Activation energy [kJ/mol]	Enthalpy of formation [kJ/mol]
>N-H	HCDS	>N-Si₂Cl₅	57	18
>N-Si₂(NH₂)₅	HCl	>N-H	56	-44
>N-H	DCS	>N-SiH₂Cl	83	15
>N-SiH₂(NH₂)	HCl	>N-H	47	-37