MIT OpenCourseWare http://ocw.mit.edu

16.982 Bio-Inspired Structures Spring 2009

For information about citing these materials or our Terms of Use, visit: http://ocw.mit.edu/terms.

























Sacrificial layer removal	
<i>XeF2 releasing</i> Figure by MIT OpenCourseWare.	
General mechanism:	
$Sac_{(\mathrm{s})}$ + 2XeF _{2 (g)} \longrightarrow SacF _{x (g)} + Xe _(g)	
where Sac _(s) = sacrificial layer material, e.g. Me, Si, etc.	
Example:	
Si _(s) + 2XeF _{2 (g)} \rightarrow SiF _{4 (g)} + 2Xe _(g) Δ H°=-1289 kJ/mol	
Chapter 12	13





