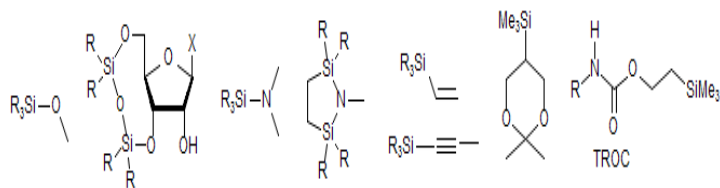
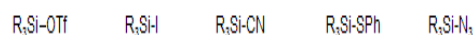


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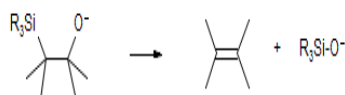
1. Protecting groups. Variations in the three R groups on silicon can provide an unlimited range of protecting groups for O, N, and C, removable under mild conditions with fluoride ion. Common ones are t-BuMe₂Si (TBS or TBDMS), t-BuPh₂Si (TBDPS), i-Pr₃Si (TIPS), and Me₃SiCH₂CH₂OCH₂ (SEM).



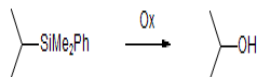
2. Lewis acidic catalysts, group transfer reagents ("fat proton" applications).



3. Siloxide elimination (Peterson Olefination) (Section I). The elimination is especially facile if the carbon bearing silicon also has a carbanion-stabilizing group on it. Can be both base or acid catalyzed.



4. Silyl groups as hydroxyl group precursors. To achieve Baeyer-Villiger-type oxidation under typical conditions (F⁻ and H₂O₂) there usually has to be one electronegative group (F, O, N) on silicon. Me₂PhSi is frequently used because the Ph group can be removed by protonolysis or brominolysis so give an oxidizable Si-OH or Si-Br group.



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