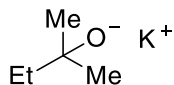
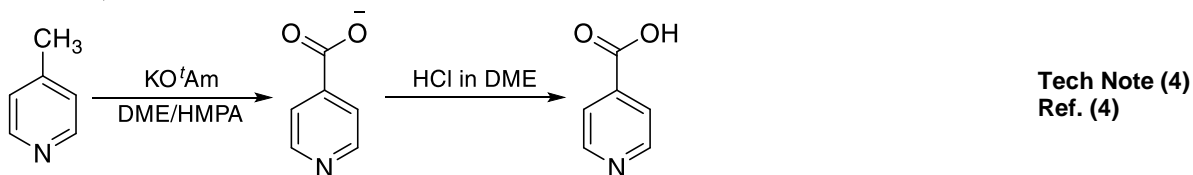
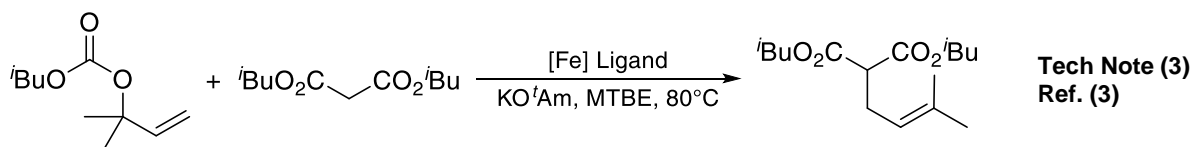
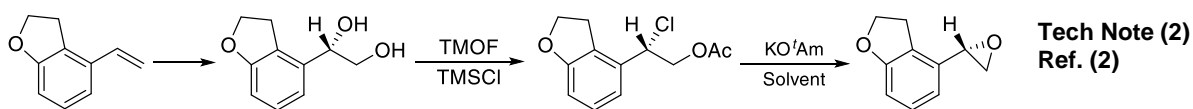
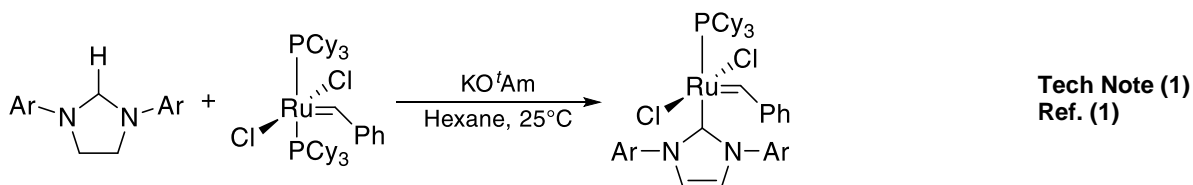


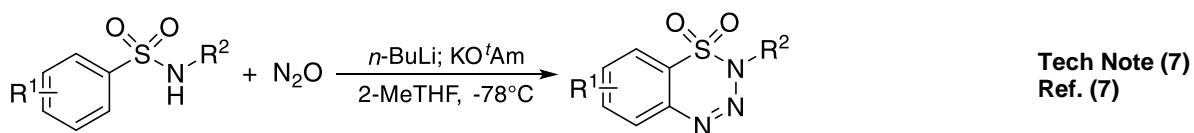
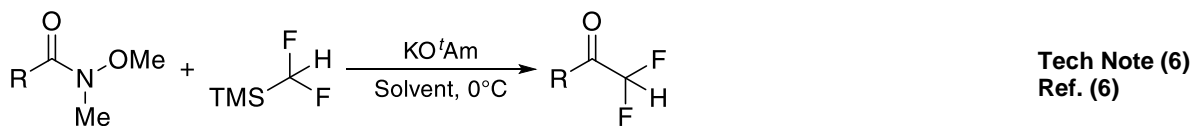
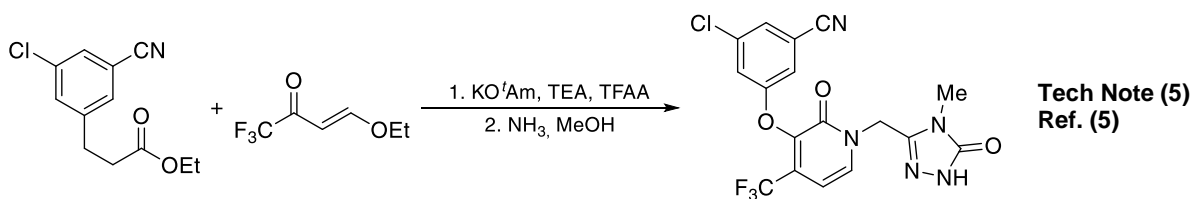
Catalog # 19-1085 CALLERY™ Potassium *tert*-amylate, 15% solution in hexanes

Potassium tertiary amylate (KTA) is also known as potassium *t*-pentoxide or potassium *t*-amyloxide. The high hydrocarbon solubility of potassium *tert*-amylate gives it an advantage over sodium and potassium alkoxides derived from *tert*-butanol or primary alcohols.

Technical Notes:

- Catalyst Preparation:** Used to convert imidazolium salts to free carbenes in the synthetic process of ruthenium olefin metathesis catalysts under mild reaction conditions
- Asymmetric Epoxidation:** Base additive used in Jacobsen asymmetric epoxidation and the Sharpless asymmetric dihydroxylation/cyclization for the preparation of chiral epoxides
- Allylic Substitutions:** Base additive used in iron-catalyzed allylic substitutions.
- Direct Oxidation:** Used in transition metal free, direct oxidation of 2-, 3-, and 4-picoline to the corresponding carboxylic acid using oxygen or air under continuous flow conditions.
- Aldol Reaction:** Used for the production process of HIV NNRTI doravirine via continuous flow aldol reaction.
- Synthesis of Tertiary Difluoroketones:** Catalyst for the direct and chemoselective synthesis of tertiary difluoroketones via Weinreb amide homologation with a CHF₂-carbene equivalent
- Redox Cyclization:** Used in the redox cyclization of amides and sulfonamides with nitrous oxide (N₂O) for the direct synthesis of heterocycles.





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