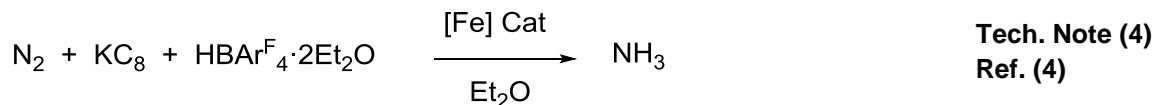
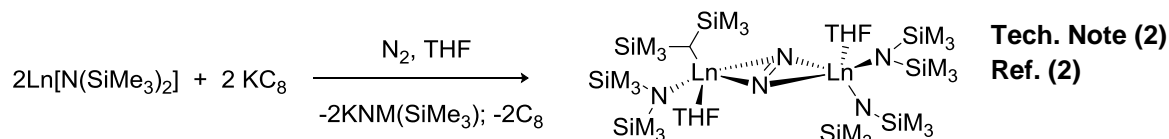


Catalog # P282336 Potassium graphite KC8

Technical Notes

1. Potassium graphite is a strong reducing agent, used for polymerization, alkylation, coupling reactions and other organic transformation.
2. Used in the N₂ and CO₂ reduction chemistry of lanthanides with TMS and Cp* ligands
3. Used for the formation of boron-boron double bonds
4. Used for iron catalyzed reduction of N₂ to NH₃
5. Used as a reducing agent for synthesis of various organometallic complexes^[5-7]
6. Important component for potassium-ion batteries^[8-10]
7. Used for superconductivity studies^[11-14]



References:

1. *Angew. Chem. Int. Ed.* **2007**, *46*, 4486
2. *Organometallics* **2007**, *26*, 4737
3. *J. Am. Chem. Soc.* **2007**, *129*, 12412
4. *Angew. Chem. Int. Ed.* **2015**, *54*, 532
5. *Angew. Chem. Int. Ed.* 2018, *57*, 1874
6. *Inorg. Chem.* 2018, *57*, 20
7. *Chem. Eur. J.* 2018, *24*, 826
8. *J. Am. Chem. Soc.* **2015**, *137*, 11566
9. *Electrochem. Commun.* **2015**, *60*, 172
10. *Nano Lett.* **2015**, *15*, 7671
11. *Phys. Rev. B*, **2009**, *79*, 205106
12. *Phys. Rev. Lett.* **2011**, *106*, 187002
13. *J. Am. Chem. Soc.* **2012**, *134*, 6536
14. *J. Mater. Chem. C*, **2016**, *4*, 11566