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Excellent and Convenient Procedures for Reduction of Benzene and Its Derivatives

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Abstract: Reductions of benzene, toluene, ortho-xylene, cumene, anisole and benzoic acid to corresponding nonconjugated dienes were realized at room temperature by gas NH₃ and Li. The reduced products were easily isolated because THF and dioxane were dissolved in the water. The yields and conversions of the reactions were 70-89% and 80-100%, respectively.

Key Words: Arenes, lithium, reductions, alcohols, protonations, ethers

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