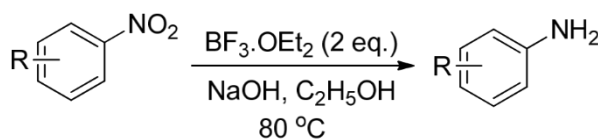


## DR-1

A LEWIS ACID PROMOTED REDUCTION OF AROMATIC NITRO  
TO AMINES COMPOUNDSRana Chatterjee,<sup>1</sup> Anindita Mukherjee,<sup>2</sup> Adinath Majee<sup>1</sup><sup>1</sup>Department of Chemistry; Visva-Bharati (A Central University), Santiniketan 731235, India.<sup>2</sup>Ural Federal University, 19 Mira St., Yekaterinburg-620002, Russian Federation.

E-mail: chemrana3@gmail.com

**Abstract.** Aromatic amines are widely used as important intermediates and key precursors in the synthesis of numerous nitrogen-containing biologically active compounds, pharmaceuticals, agrochemicals, dyes, and polymers.<sup>1</sup> Many synthetically useful building blocks, such as amides, imines, diazonium salts are originated from amine compounds.<sup>2</sup> Reduction of nitro aromatics is a very common procedure and considered as a short, and facile path to prepare aromatic amines. Very early, Bechamp reduction was reported for the conversion of nitro aromatics to the corresponding anilines,<sup>3</sup> but after that a number methods have been developed where the reduction were occurred with the help of metal catalyst<sup>4</sup> or under metal free condition.<sup>5</sup> Herein a very mild and simple technique for the reduction of aromatic nitro compounds to amines have been developed by our group using a Lewis acid and basic condition as shown in Scheme 1.

**Scheme 1.** Reduction of nitro arenes using  $\text{BF}_3\cdot\text{OEt}_2$ **References**

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