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Synthesis of Dibenzylsulfoxide using Tris[1,10- Phenanthroline] Iron(II) Percholate

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Abstract : The availability of selective oxidants to use for selective synthesis of organic compounds is of obvious importance to research in organic chemistry. The importance of organic sulfides and sulfoxides as reductants in biological systems is well known. Electron Transfer reaction[1-3] is highly sensitive to the structure of aromatic sulfide as well as the structure of the ligand of the Fe(III)-polypyridyl complexes. In the present study, the detailed literature survey for the synthesis of dibenzylsulfoxide using DBS as substrate and $Fe(Phen)_3]^{3+}$ as oxidant.The oxidation procedure is very simple and the products are easily isolated in 92% yields.

Key words : Electron Transfer(ET), Dibenzyl Sulfide(DBS).

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