**Use of Lawesson’s Reagent in the Synthesis of Heterocyclic Compounds**

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Lawesson’s reagent, the IUPAC name of which is 2,4-bis(4-methoxyphenyl)-1,3,2,4-dithiadiphosphetane-2,4-disulphide (Figure 1) is an important reagent used in organic synthesis as a thiation reagent in place of P4S10. On account of its advantage over other thiation agents, the chemistry of Lawesson's reagent and related substances has been reviewed by several groups. Besides the transformation of carbonyl group in thio carbonyl functionality, this reagent is also employed in the synthesis of a wide range of heterocyclic compounds containing sulphur atom. In the present review, we have compiled the reports illustrating the use of this reagent in the synthesis of specifically phosphorus and sulfur containing heterocycles.



Figure 1. Lawesson’s Reagent