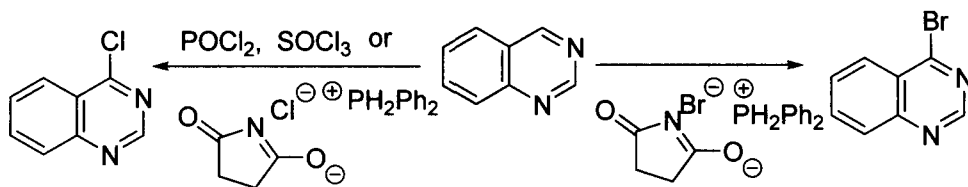
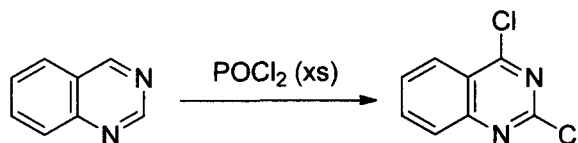


quinazoline derivative; however, the yield is much lower due to the instability of the brominated product.

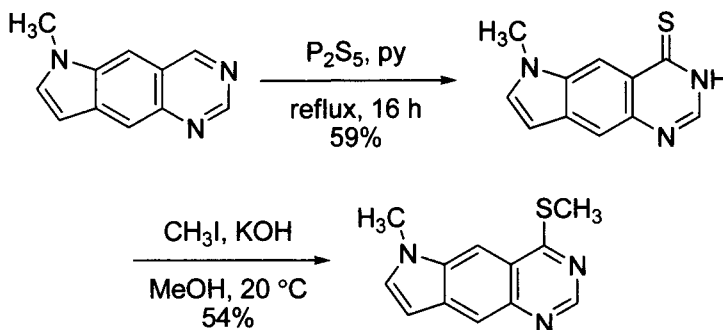


Multiple halogenations are possible when excess chlorinating reagent is used. For example, 2,4-dichloroquinazolines, which are important starting materials for synthesizing 2,4-disubstituted quinazolines, can be prepared using excess POCl_3 .⁵



Thiomethylation

Denny and co-workers used a two-step sequence to prepare 4-thiomethyl substituted quinazolines as versatile intermediates for the synthesis diversely substituted quinazolines.⁶ Treatment of 6-methyl-6*H*-pyrrolo[2,3-*g*]-quinazoline with Lawesson's reagent, followed by methylation using methyl iodide under basic conditions, gave the corresponding quinazoline in 32% yield over two steps.



Substitution

Substitution of 4-chloro- and 4-thiomethyl quinazoline derivatives occurs readily in the presence of a nucleophile to provide the corresponding 4-