

N-FUNCTIONALISATION OF 2,3,4,5-TETRAKIS(TRIFLUOROMETHYLTHIO)-PYRROLE

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Tetrakis(trifluoromethylthio)pyrrole(I) reacts with NaOCl or NaOBr in CCl_4 to the respective N-halogenated derivatives. The N-Chloro-tetrakis(trifluoromethylthio)pyrrole-(II) is an excellent precursor for nucleophilic exchange reactions. Reaction with NaF, KCN, KOCN, AgSeCN and NaX ($\text{X} = \text{SCN}, \text{NH}_2, \text{SH}$) leads to corresponding N-functionalised derivatives. In boiling CCl_4 in the presence of pyridine, (I) reacts with ClSN (monomer) to the N-thiazyl-tetrakis-(trifluoromethylthio)pyrrole. This compound, like its N-cyano analog, undergoes $[4 + 2]$ cycloaddition with butadiene.