

SOME SYNTHESSES USING TETRAKIS(TRIFLUOROMETHYL)DEWAR THIOPHENE

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Tetrakis(trifluoromethyl)Dewar thiophene (1) is found to be a good dipolarophile and dienophile. Therefore, 1 reacts with any kind of azides to give 1,3-dipolar cycloadducts, which are transformed to tetrakis(trifluoromethyl)Dewar pyrroles (2), compounds of a new cyclic ring system. Further, 1 reacts with cyclic or acyclic dienes to give Diels-Alder adducts. The adduct (3) of 1 with butadiene was transformed to tetrakis(trifluoromethyl)cyclooctatetraene (4) by desulfurization, bromination and dehydrobromination, stepwise. Valence-bond isomerisation of 4 will be presented.

