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SYNTHESIS AND REACTIONS OF BIS-TRIFLUOROMETHYL)-
SUBSTITUTED CYCLOHEXENE-ALDEHYDES

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Hexafluoroacetone reacts with diethoxyphosphinylacetaldehyde to give 4,4,4-trifluoro-3-(trifluoromethyl)-2-butenal[1], which can be added to 1,3-pentadiene in a Diels-Alder reaction yielding 1-formyl-5-methyl-6,6-bis(trifluoromethyl)-cyclo-hex-3-ene. Reactions for chain prolongation using diethoxyphosphinyl-2-propanone and vinylbromide are described.

Further attempts for the synthesis of 6,6-bis(trifluoromethyl)-retinals are presented.

1 H. Abele, A. Haas and M. Lieb, Chem. Ber. **119**, 3502 (1986).