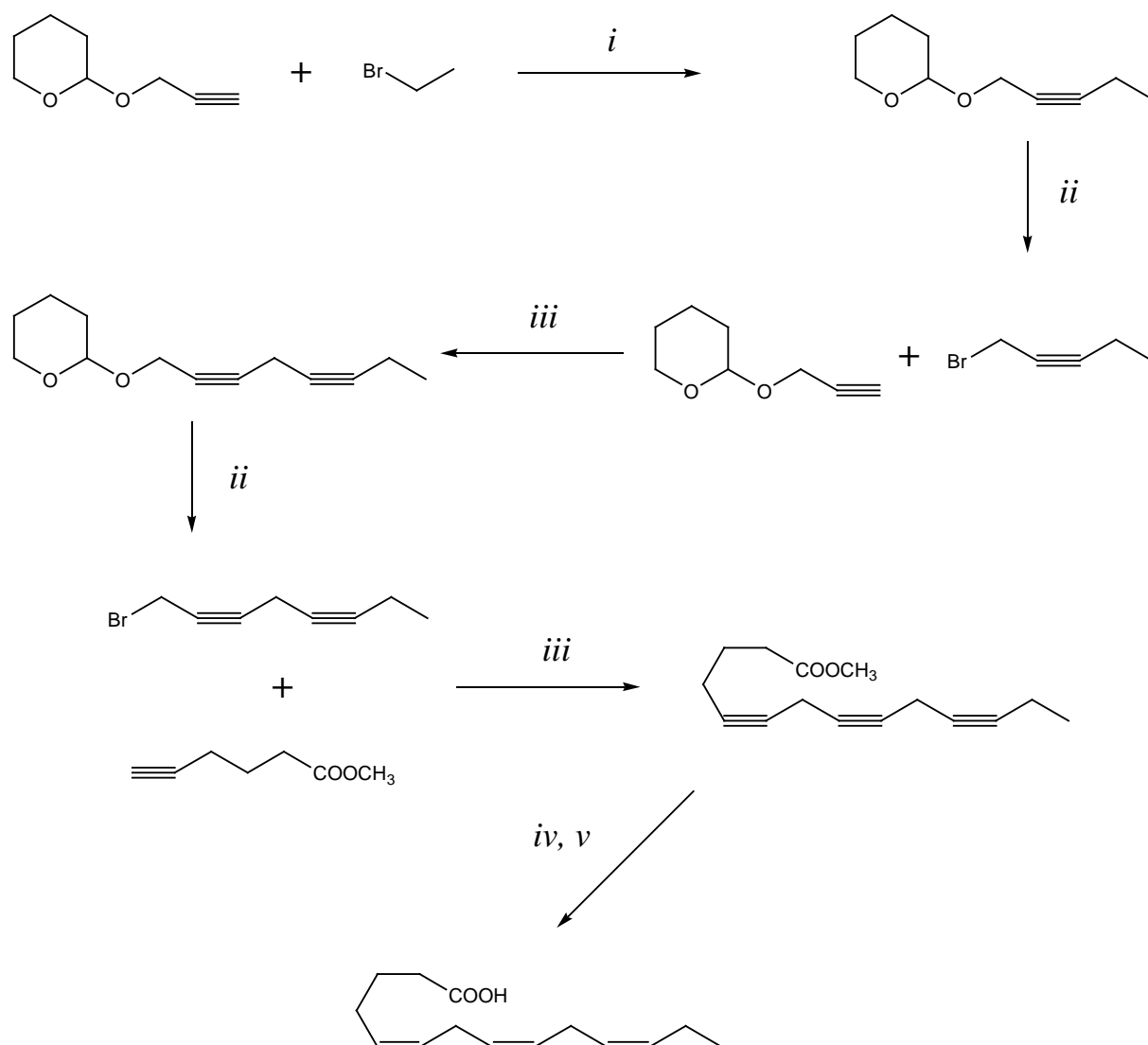


Synthesis of 5(Z),8(Z),11(Z)-tetradecatrienoic acid

Materials - Ethyl bromide, tetrahydro-2-(2-propynyloxy)-2H-pyran, and 5-hexynoic acid as well as the reagents used were purchased from Sigma-Aldrich.

The reactions shown below were used.



i, BuLi, HMPA in THF; *ii*, Br₂ and triphenylphosphine in CH₂Cl₂; *iii*, CuI, NaI, Cs₂CO₃ in DMF; *iv*, H₂, p-2 nickel, ethylenediamine in EtOH; *v*, NaOH in aq. MeOH