Marks • 1,2-Dichloropropane can exist in two enantiomeric forms, compounds I and II. In the 5 boxes below draw structures of the two enantiomers of 1,2-dichloropropane clearly showing the stereochemistry at the chiral carbon. compound I compound II Cl , H H, Cl Cl (R)-enantiomer (S)-enantiomer There are three other compounds, III, IV and V with molecular formula C₃H₆Cl₂. In the boxes below, give the constitutional formulas and names of these compounds. Structure Name compound III 2,2-dichloropropane Cl compound IV 1,1-dichloropropane compound V 1,3-dichloropropane Cl `Cl

ANSWER CONTINUES ON THE NEXT PAGE



Which of the following best describes the product: (*R*)-enantiomer, (*S*)-enantiomer, racemate?

racemate (equal amounts of (*R*) and (*S*) will be formed)