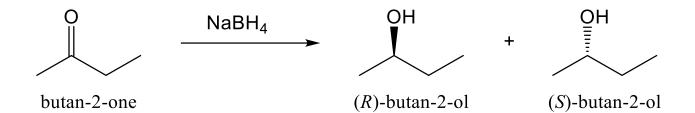
Question: Reduction of butan-2-one with NaBH4 yields butan-2-ol. Explain why the

product is chiral but not optically active.

## Answer:

Reduction of butan-2-one leads to racemic mixture of (R)- an (S)- butan-2-ol. The enantiomers are optically active separately, but in racemic mixture they cancel each other out.



Answer provided by AssignmentExpert.com