

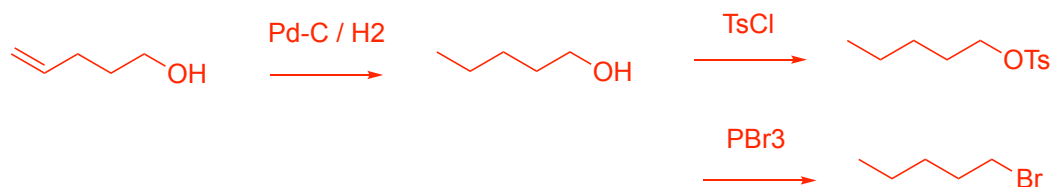
Chem 236 – Homework Assignment #6

Due November 10, 2023 (Before Lecture Begins)

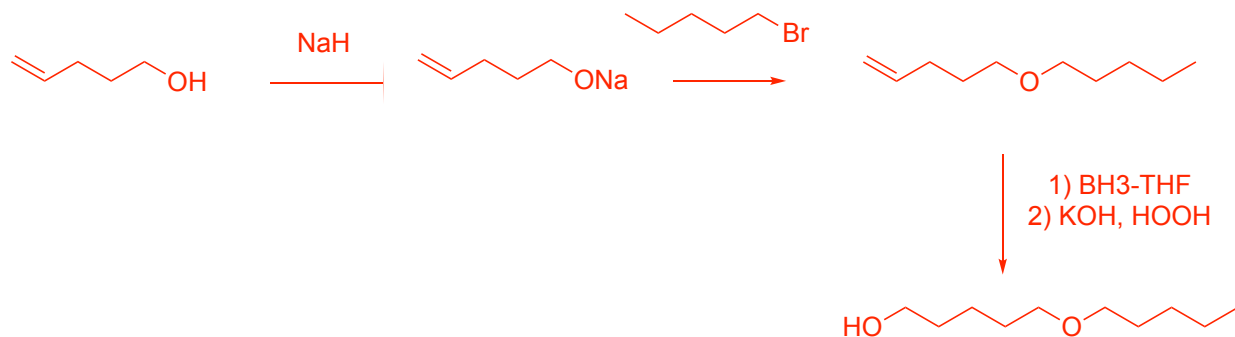
Your chemical cabinet contains the following reagents:

KOH	PBr ₃	BH ₃ -THF	
H ₂ SO ₄	Hg(OAc) ₂	HOOH	
HBr	TsCl	H ₂	Pd-C
Na	NaH	pyridine	

This is tough challenge, think about how you would convert pent-4-en-1-ol into the ether/alcohol shown below. There are a number of ways to do this and the synthesis will take several steps. It might help to work backwards and keep in mind functional group compatibility. In other words, a reagent you use can react with any of the groups in the molecule not just the one you want to react.

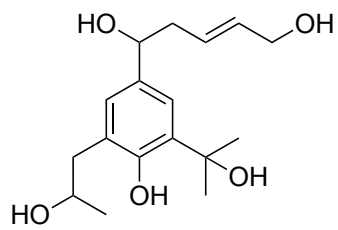


Either way of activating the OH group would work since both can serve as the leaving group in a SN reaction

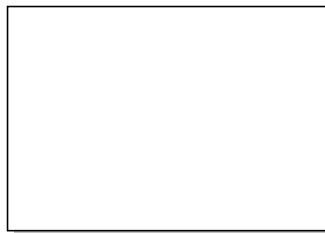


Determine the oxidation state for the bolded atom in each of the following compounds

a)	Al ₂ O ₃	+3
b)	Xe F ₆	-6
c)	K ₂ Cr O ₇	+6
d)	Ca (ClO) ₂	+2
e)	Na ₂ S O ₃	+4



KMnO₄



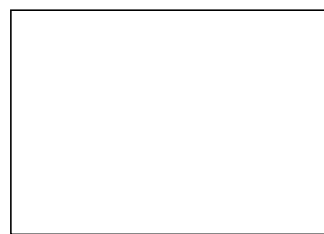
Jones



PCC



DMP



MnO₂

