## VIII.E ALCOHOLS (ROH)

Alcohols are named in a similar way to ketones, the site of the alcohol MUST be included in the name (even if the alcohol is at C-1). The family ending is 'ol' and the prefix is hydroxy'. Alcohols are lower priority than carboxylic acids and their derivatives, aldehydes and ketones.

## **Example**

1. Give the IUPAC name for CH<sub>3</sub>CH=CHCH<sub>2</sub>CH<sub>2</sub>OH

## **OBSERVATIONS**

Redraw the structure:  $CH_3CH=CHCH_2CH_2OH$   $\rightarrow$  C-C=C-C-C-OH

Fill out the template

	OBSERVATION	IMPLICATION
Parent Group and Site	Alcohol at C-1	1ol
Longest Carbon Chain/Ring	5 Carbons	pent
# C=C or C≡C bonds and Site	1 C=C at C-3	penten
Final Word		3-penten-1-ol
Substituents and Sites	None	MIRKE 0/1/1000
Alphabetizing substituents		ZOTRIKE 7/1/1777

## **SOLUTION** Compound is 3-penten-1-ol

[Note. The '1' is placed before the 'ol' to show it is the site of the alcohol, not the alkene].