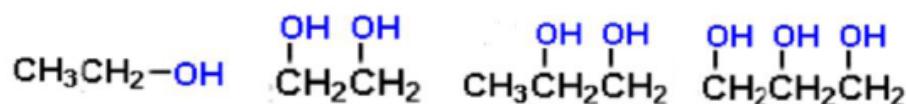


## Alcohol with More than one –OH group



(ethyl alcohol) (ethylene glycol) (propylene glycol) (glycerol )

Structural Formula	Name	Molecular Boiling		
		Weight (g/mol)	Point (°C)	Solubility in Water
$\text{CH}_3\text{OH}$	methanol	32	65	infinite
$\text{CH}_3\text{CH}_3$	ethane	30	-89	insoluble
$\text{CH}_3\text{CH}_2\text{OH}$	ethanol	46	78	infinite
$\text{CH}_3\text{CH}_2\text{CH}_3$	propane	44	-42	insoluble
$\text{CH}_3\text{CH}_2\text{CH}_2\text{OH}$	1-propanol	60	97	infinite
$\text{CH}_3\text{CH}_2\text{CH}_2\text{CH}_3$	butane	58	0	insoluble
$\text{CH}_3\text{CH}_2\text{CH}_2\text{CH}_2\text{CH}_2\text{OH}$	1-pentanol	88	138	2.2 g/100 g
$\text{HOCH}_2\text{CH}_2\text{CH}_2\text{CH}_2\text{OH}$	1,4-butanediol	90	130	infinite
$\text{CH}_3\text{CH}_2\text{CH}_2\text{CH}_2\text{CH}_2\text{CH}_3$	hexane	96	69	insoluble

Structural Formula	Name	Boiling		
		Molecular Weight	Point (°C)	Solubility in Water
$\text{CH}_3\text{CH}_2\text{OH}$	ethanol	46	78	infinite
$\text{CH}_3\text{OCH}_3$	dimethyl ether	46	-24	7.8 g/100 g
$\text{CH}_3\text{CH}_2\text{CH}_2\text{CH}_2\text{OH}$	1-butanol	74	117	7.4 g/100 g
$\text{CH}_3\text{CH}_2\text{OCH}_2\text{CH}_3$	diethyl ether	74	35	8 g/100 g
$\text{CH}_3\text{CH}_2\text{CH}_2\text{CH}_2\text{CH}_2\text{OH}$	1-pentanol	88	138	2.3 g/100 g
$\text{HOCH}_2\text{CH}_2\text{CH}_2\text{CH}_2\text{OH}$	1,4-butanediol	90	230	infinite
$\text{CH}_3\text{CH}_2\text{CH}_2\text{CH}_2\text{OCH}_3$	butyl methyl ether	88	71	slight
$\text{CH}_3\text{OCH}_2\text{CH}_2\text{OCH}_3$	ethylene glycol dimethyl ether	90	84	infinite

## dicarboxylic acid nomenclature

A mnemonic to aid in remembering the order of the common nomenclature for the first six dicarboxylic acids is

"Oh my, such great apple pie!" (oxalic, malonic, succinic, glutaric, adipic, pimelic). A variant for the first nine adds "Sweet as sugar!" (suberic, azelaic, sebacic) to the end of the mnemonic.