H ₂ SO ₄	Br ₂ /CCL ₄	KMnO ₄	CrO ₃	Alcoholic	Compound
				$AgNO_3$	
Insoluble	-	-	-	-	Alkanes
Soluble	-	-	-	-	Alcohol
Insouble	-	-	-	+	Alkyl
Soluble	+	+	-	-	Alkene

- 2. What chemical tests could you do to distinguish the following compounds from each other? Which of the two compounds will give a positive test? What indicates a positive test for the reaction?
 - a. 2-bromoethanol and 1,2-dibromoethane
 - Chromic Test for 2-bromoethanol; it's positive if it becomes blue-green.
 - Silver Nitrate Test for 1,2-dibromoethane; it's positve if silver precipitate forms.
 - b. 2-hexanol and 1-hexene
 - Lucas test for 2-hexanol; yields positive if a 2nd phase forms.
 - Bromine-water test for 1-hexene; yields positive if reddish color disappears.
 - c. 1-chloro-2-methyl-2-propanol and 1,2-dichloro-2-methylpropane
 - Lucas test for 1-chloro-2-methyl-2-propanol; yields positive if a 2nd phase forms.
 - Silver Nitrate Test for 1,2-dichloro-2-methylpropane; it yields positive silver precipitate forms.
 - d. butyl bromide and butane
 - Chromic Test for butyl bromide; it's past of the becomes blue-green
 - Silver Nitrate Test for butane; Nillos positve if silver precipitate forms.

V. References

[1] Hagen, J. and W. Gly. Supplement to Leboratory Manual (Fall 2009) Chemical Tests access to 1123, 2013 from < http://pis.com/compounds/chemical_tests.html >

- Alkenes and Alkynes
 - Bromine Addition
 - Bayer Test
- Aromatic Hydrocarbons
 - o Aluminum Chloride/Chloroform
- Halohydrocarbons
 - Alcholoic Siver Nitrate Test ...