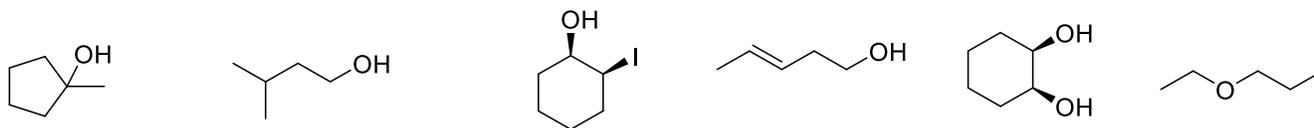


7. Alcoli eteri e tioli

1) Assegna i nomi ai seguenti composti assegnando anche la stereochimica.



2) Disegna una formula di struttura per i seguenti composti:

- a) Alcol isopropilico b) 1,4-Butandiolo c) 2-Mercaptoetanolo
d) (*R*)-5-Metil-2-esanolo e) Etere dietilico f) Metossibutano

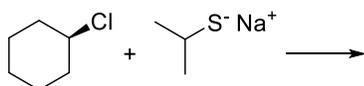
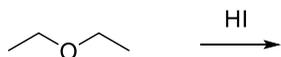
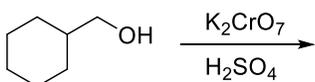
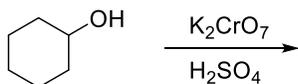
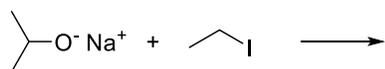
3) Sistemare i seguenti composti in ordine di punto di ebollizione crescente (i valori in °C sono; -42, 78, 117 e 198)

- (a) CH3CH2CH2CH2OH (b) CH3CH2OH (c) HOCH2CH2OH (d) CH3CH2CH3

4) Di ciascuna delle seguenti coppie di composti, indica quella più solubile in acqua:

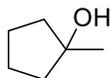
- (a) CH2Cl2 o CH3OH (b) CH3CH2Cl o NaCl (d) CH3CH2CH2CH3 o CH3CH2OCH2CH3

5) Scrivere i prodotti delle seguenti reazioni

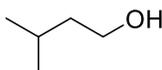


7. Alcoli eteri e tioli - SOLUZIONI

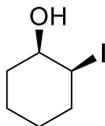
1) Assegna i nomi ai seguenti composti assegnando anche la stereochimica.



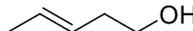
1-Metilciclopentanol



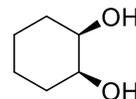
3-Metilbutanolo



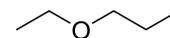
(1R,2S)-2-iodocicloesanol



trans-3-penteno



cis-cicloesandiolo



etossipropano

2) Disegna una formula di struttura per i seguenti composti:

a) Alcol isopropilico

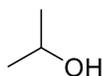
b) 1,4-Butandiolo

c) 2-Mercaptoetanolo

d) (R)-5-Metil-2-esanolo

e) Etere dietilico

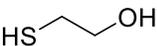
f) Metossibutano



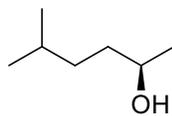
a



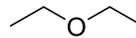
b



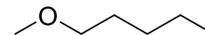
c



d



e



g

3) Sistemare i seguenti composti in ordine di punto di ebollizione crescente (i valori in °C sono; -42, 78, 117 e 198)

(a) $\text{CH}_3\text{CH}_2\text{CH}_2\text{CH}_2\text{OH}$

(b) $\text{CH}_3\text{CH}_2\text{OH}$

(c) $\text{HOCH}_2\text{CH}_2\text{OH}$

(d) $\text{CH}_3\text{CH}_2\text{CH}_3$

$d < b < a < c$

4) Di ciascuna delle seguenti coppie di composti, indica quella più solubile in acqua:

(a) CH_2Cl_2 o CH_3OH

(b) $\text{CH}_3\text{CH}_2\text{Cl}$ o NaCl

(d) $\text{CH}_3\text{CH}_2\text{CH}_2\text{CH}_3$ o $\text{CH}_3\text{CH}_2\text{OCH}_2\text{CH}_3$

(a) CH_3OH

(b) NaCl

(c) $\text{CH}_3\text{CH}_2\text{OCH}_2\text{CH}_3$

5) Scrivere i prodotti delle seguenti reazioni

