

Rešitve

1.

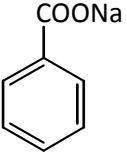
	Racionalna formula	IUPAC ime spojine	
a)	$\text{H}_3\text{C}-\text{CH}_2-\text{CH}_2-\overset{\text{Cl}}{\underset{ }{\text{CH}}}-\text{OH}$	1-klorobutan-1-ol	1 T
b)	$\text{H}_3\text{C}-\text{CH}_2-\overset{\text{Cl}}{\underset{ }{\text{CH}}}-\text{CH}_2-\text{OH}$	2-klorobutan-1-ol	1 T
c)	$\text{H}_3\text{C}-\overset{\text{Cl}}{\underset{ }{\text{CH}}}-\text{CH}_2-\text{CH}_2-\text{OH}$	3-klorobutan-1-ol	1 T
d)	$\text{H}_2\text{C}-\overset{\text{Cl}}{\underset{ }{\text{C}_2\text{H}}}-\text{CH}_2-\text{CH}_2-\text{OH}$	4-klorobutan-1-ol	1 T
e)	$\text{H}_3\text{C}-\text{CH}_2-\overset{\text{OH}}{\underset{ }{\text{CH}}}-\text{CH}_2-\text{Cl}$	1-klorobutan-2-ol	1 T
f)	$\text{H}_3\text{C}-\text{CH}_2-\overset{\text{Cl}}{\underset{ }{\text{C}}}-\text{CH}_3$ OH	2-klorobutan-2-ol	1 T
g)	$\text{H}_3\text{C}-\overset{\text{Cl}}{\underset{ }{\text{CH}}}-\overset{\text{OH}}{\underset{ }{\text{CH}}}-\text{CH}_3$	3-klorobutan-2-ol	1 T
h)	$\text{H}_2\text{C}-\overset{\text{Cl}}{\underset{ }{\text{CH}_2}}-\overset{\text{OH}}{\underset{ }{\text{CH}}}-\text{CH}_3$	4-klorobutan-2-ol	1 T
i)	$\text{H}_3\text{C}-\overset{\text{CH}_3}{\underset{ }{\text{CH}}}-\overset{\text{Cl}}{\underset{ }{\text{CH}}}-\text{OH}$	1-kloro-2-metilpropan-1-ol	1 T
j)	$\text{H}_3\text{C}-\overset{\text{Cl}}{\underset{ }{\text{C}}}-\text{CH}_2-\text{OH}$ CH ₃	2-kloro-2-metilpropan-1-ol	1 T
k)	$\text{H}_2\text{C}-\overset{\text{Cl}}{\underset{ }{\text{CH}}}-\overset{\text{CH}_3}{\underset{ }{\text{CH}}}-\text{CH}_2-\text{OH}$	3-kloro-2-metilpropan-1-ol	1 T
l)	$\text{H}_3\text{C}-\overset{\text{OH}}{\underset{ }{\text{C}}}-\text{CH}_2-\text{Cl}$ CH ₃	1-kloro-2-metilpropan-2-ol	1 T

Dijak mora napisati 10 struktur.

Vsak v celoti pravilen odgovor se točkuje z 1 T.

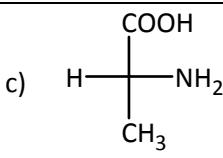
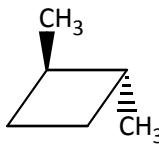
Skupaj: 10 T

2.

Pari spojin	Racionalna formula bolj topne spojine	Utemeljitev
butan-1-ol; oktan-1-ol	$\text{CH}_3\text{CH}_2\text{CH}_2\text{CH}_2\text{OH}$ 1 T	V butan-1-olu je alkilni, to je hidrofobni del molekule krajši. 1 T
benzojska kislina; natrijev benzoat	 1 T	Soli so dobro topne v vodi. 1 T
etyl etanoat; etanojska kislina	CH_3COOH 1 T	Etanojska kislina tvori močne vodikove vezi z molekulami vode. 1 T
pentan; etyl propil eter	$\text{CH}_3\text{CH}_2\text{OCH}_2\text{CH}_2\text{CH}_3$ 1 T	Interakciji med molekulami etra in vode so vsekakor močnejše od interakcij med molekulami pentana in molekulami vode. 1 T

Skupaj: 8 T

3.

Strukturni zapis zahtevanega izomera		
a)	$\text{CH}_3\text{CH}_2-\overset{\text{CH}_3}{\underset{}{\text{CH}}}-\text{CH}_3$ ali $\text{CH}_3-\overset{\text{CH}_3}{\underset{\text{CH}_3}{\text{C}}}-\text{CH}_3$	2 T
b)	$\text{CH}_3\text{CH}_2\text{CH}_2\text{COOH}$	2 T
c)		2 T
d)		2 T

Skupaj: 8 T

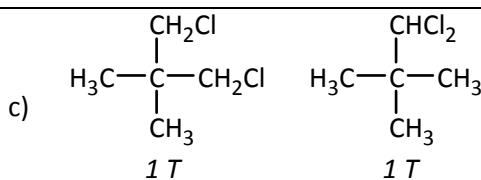
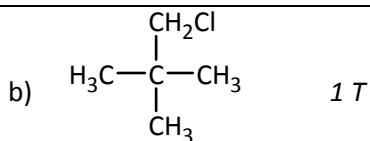
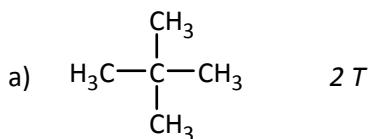
4.1

Svetloba je potrebna za razcep vezi v molekuli klora in nastanka atomov klora.

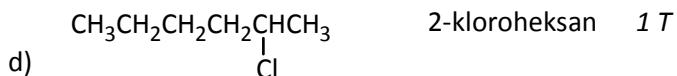


Ti sprožijo verižni proces reakcije.

4.2



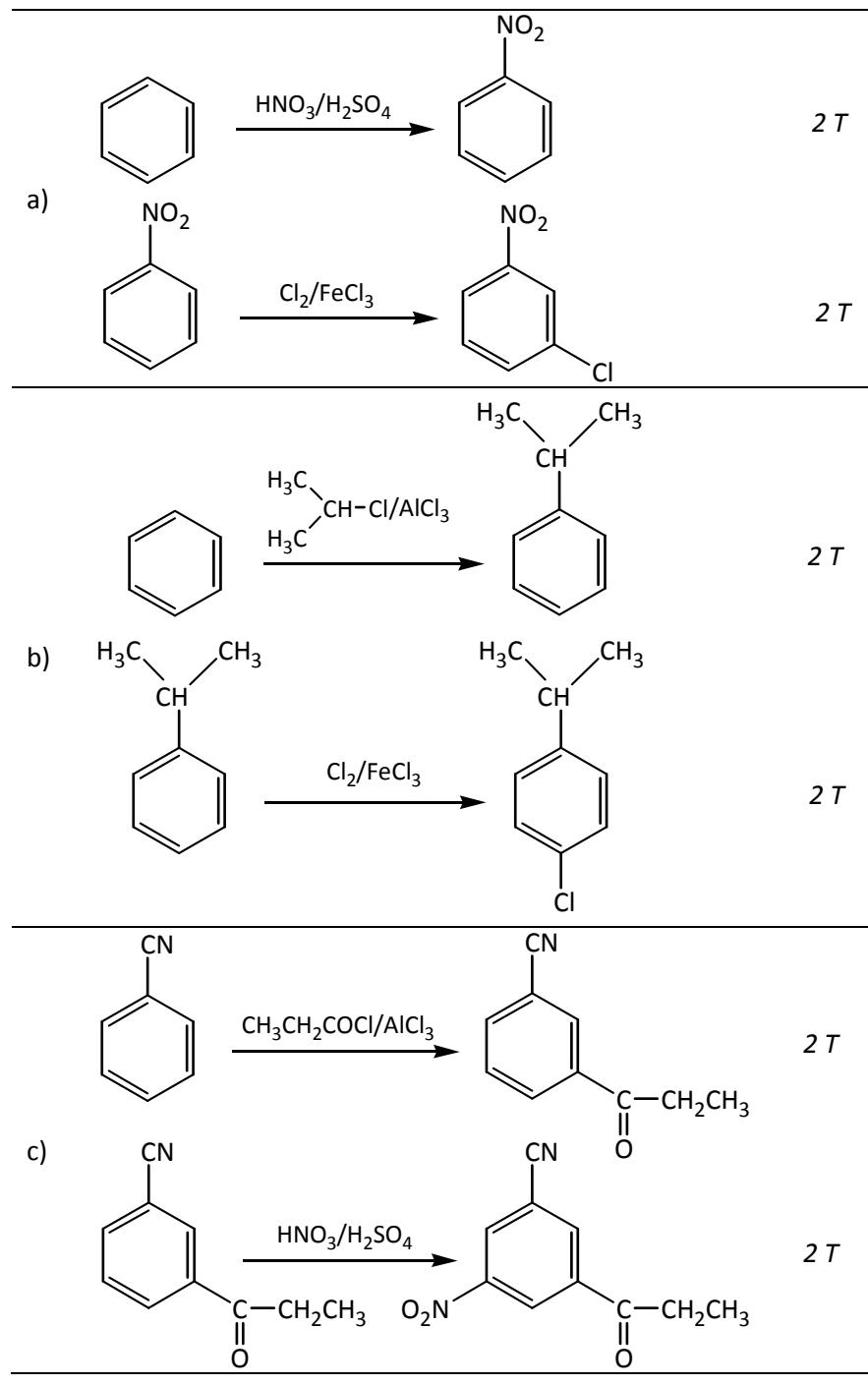
Nastanejo trije monosubstituirani produkti.



Vsak v celoti pravilen odgovor se točkuje z 1 T.

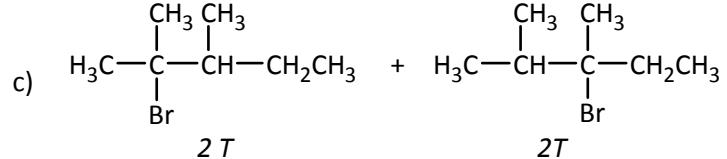
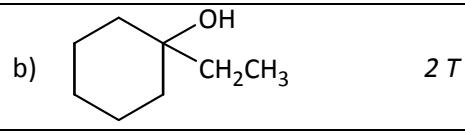
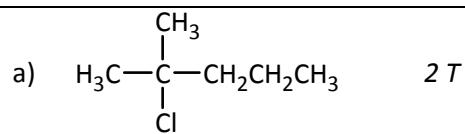
Skupaj: 10 T

5.

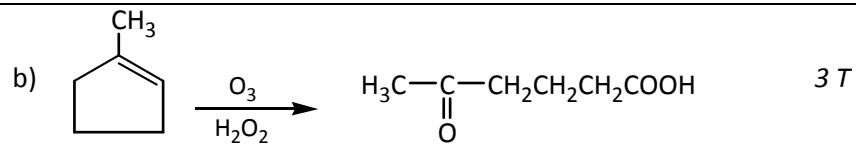
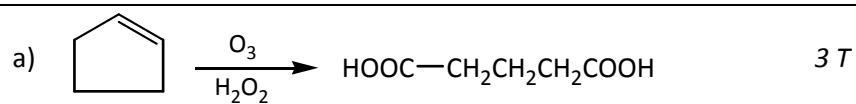


Skupaj: 12 T

6.1

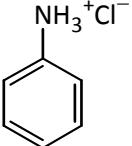
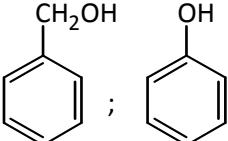
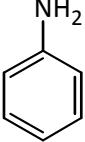
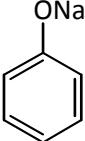
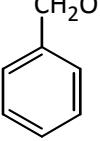
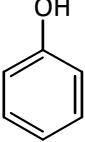


6.2



Skupaj: 14 T

7.

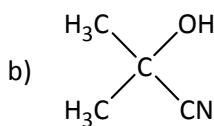
A		1 T
B		1 T
C		1 T
D	vodna raztopina NaCl ali NaCl(aq)	1 T
E		1 T
F	 eterna raztopina	1 T
G		1 T
H	vodna raztopina NaCl ali NaCl(aq)	1 T

Skupaj: 8 T

8.1

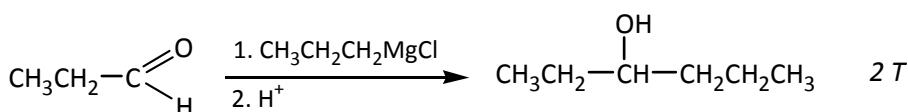
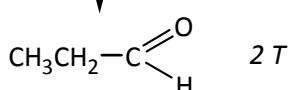
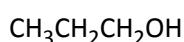
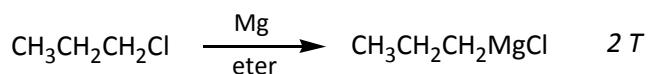


2 T



2 T

8.2

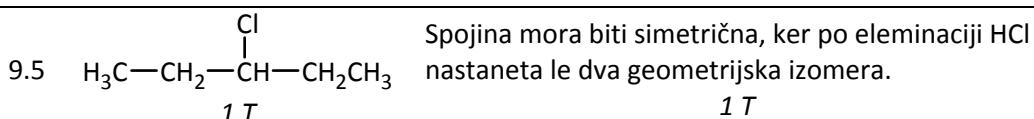
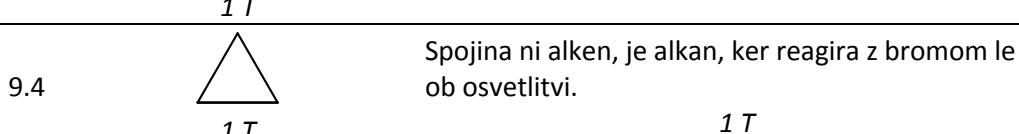
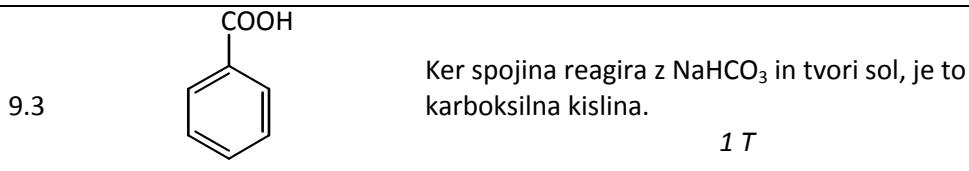
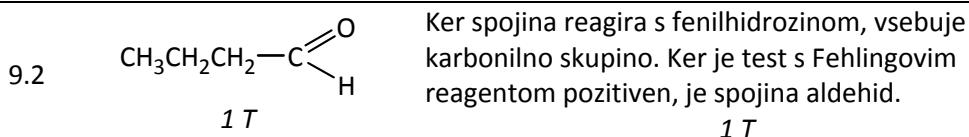
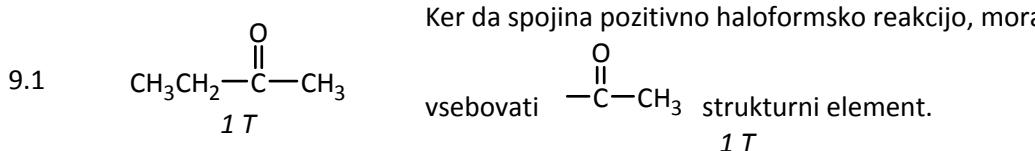


Skupaj: 10 T

9.

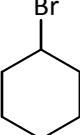
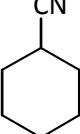
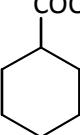
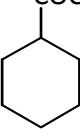
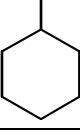
Racionalna formula

Komentar



Skupaj: 10 T

10.

Spojina	Strukturna formula	
A		2 T
B		2 T
C		2 T
D		2 T
E		2 T

Skupaj: 10 T

Vse skupaj: 100 T