

Rešitve

1.1	$C_6H_{12}O_6(s) \rightarrow 2 C_2H_5OH(l) + 2 CO_2(g)$	3 T	
1.2	92,1 g etanola	3 T	
1.3	51,1 %	3 T	Skupaj: 9,0 T

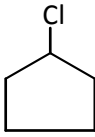
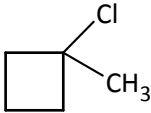
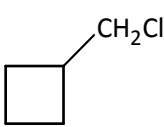
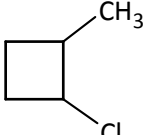
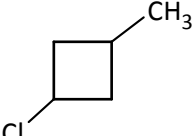
2.1	trdnem, ioni, ionskih	3 x 2 T	
2.2	talina <i>ali</i> tekočina, gibljejo	2 x 2 T	Skupaj: 10,0 T

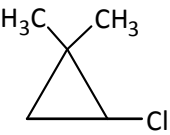
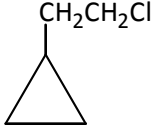
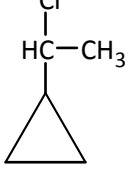
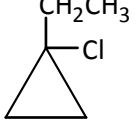
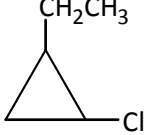
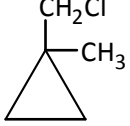
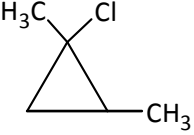
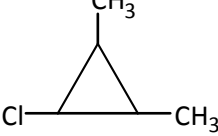
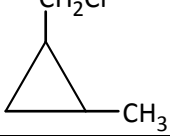
3.1	$Zn + 2 HCl \rightarrow ZnCl_2 + H_2$	4 T	
3.2	$V(H_2) = 34,3 \text{ mL}$ Nekaj več kot 5 min.	6 T	Skupaj: 10,0 T

4.	oglišče kocke, koordinacijsko število je 8 (v obeh primerih)	4 x 2 T	Skupaj: 8,0 T
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5.1	CaCO ₃	2 T	
5.2	SO ₂	2 T	
5.3	CO	2 T	Skupaj: 6,0 T

6.

Skeletna ali racionalna formula	IUPAC-ovo ime
	klorociklopentan
	1-kloro-1-metilciklobutan
	klorometilciklobutan <i>ali</i> (klorometil)ciklobutan
	1-kloro-2-metilciklobutan
	1-kloro-3-metilciklobutan

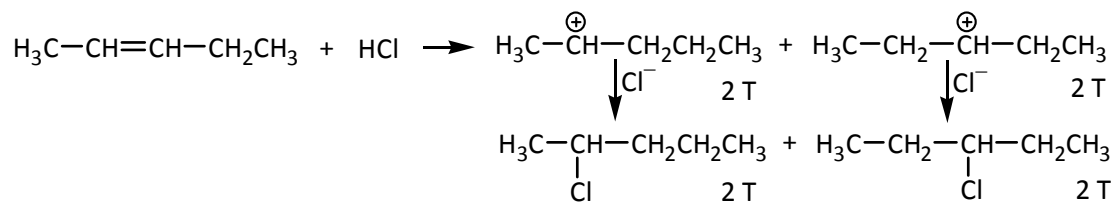
	1,1-dimetil-2-klorociklopropan <i>ali</i> 1-kloro-2,2-dimetilciklopropan
	(2-kloroetil)ciklopropan
	(1-kloroetil)ciklopropan
	1-etil-1-klorociklopropan
	1-etil-2-klorociklopropan <i>ali</i> 2-etil-1-klorociklopropan
	1-klorometil-1-metilciklopropan 1-(klorometil)-1-metilciklopropan
	1,3-dimetil-1-klorociklopropan <i>ali</i> 1-kloro-1,2-dimetilciklopropan
	1,3-dimetil-5-klorociklopropan <i>ali</i> 1-kloro-2,3-dimetilciklopropan
	1-klorometil-2-metilciklopropan <i>ali</i> 1-(klorometil)-2-metilciklopropan

Vsak pravilni odgovor – skeletna formula in ime je 1 T.
(upošteva se 10 struktur)

Skupaj: 10,0 T

7.1	Ker bencin vsebuje nepolarne molekule alkanov, voda pa je polarna.	2 T	
7.2	Ker je gostota bencina manjša od gostote vode.	2 T	
7.3	Ker je odpornost obeh bencinov proti kompresiji zelo podobna.	2 T	
7.4	Ker so v dizelskem gorivu prisotni alkani z večjim številom C-atomov.	2 T	
7.5	Ker pri nizki temperaturi preide dizelsko gorivo v trdno agregatno stanje.	2 T	Skupaj: 10,0 T

8. Produkti:



Razlaga:

Adicija poteče po obeh poteh, saj v obeh primerih nastaneta sekundarna karbokationska intermediata.

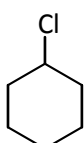
2 T

Skupaj: 10,0 T

9. A 3 T



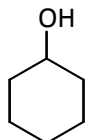
B 3 T



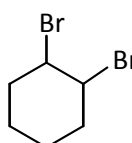
C 3 T



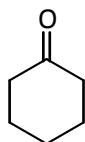
D 2 T



E 2 T

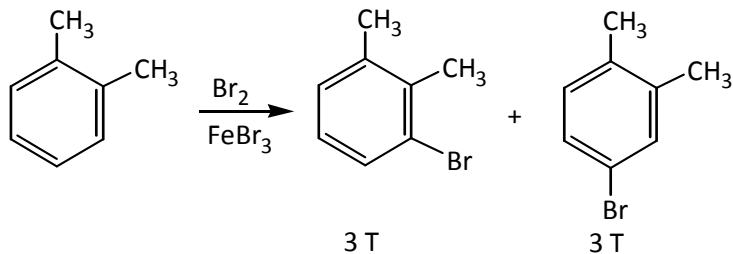


F 2 T



Skupaj: 15,0 T

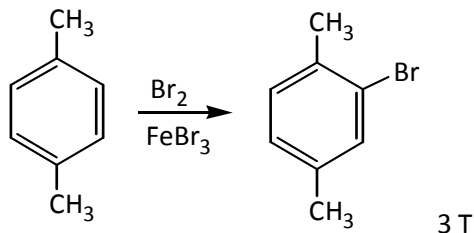
10.1



3 T

3 T

10.2



3 T

10.3 Pri bromiranju *orto* izomera nastaneta dva monobromirana produkta, pri *para* izomeru pa le en monobromiran produkt

3 T

Skupaj: 12,0 T

Vse skupaj: 100,0 T