



higher education & training

Department:
Higher Education and Training
REPUBLIC OF SOUTH AFRICA

NASIENRIGLYN

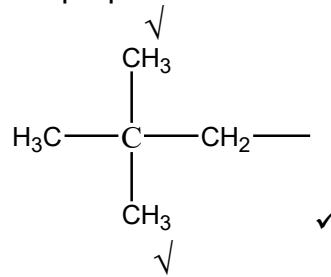
NATIONALE SERTIFIKAAT

CHEMIE N5

25 November 2022

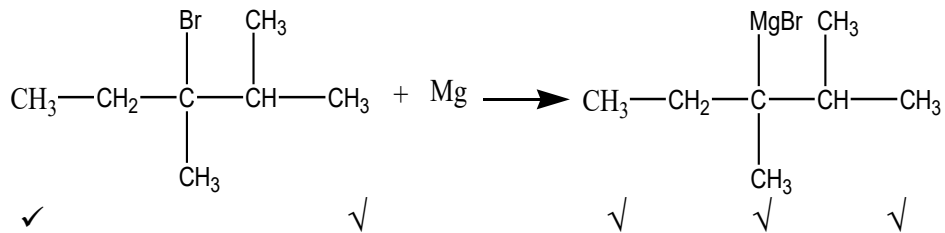
Hierdie nasienriglyn bestaan uit 7 bladsye.

2.2.2 Neopentiel of 2,2-dimetielpropiel



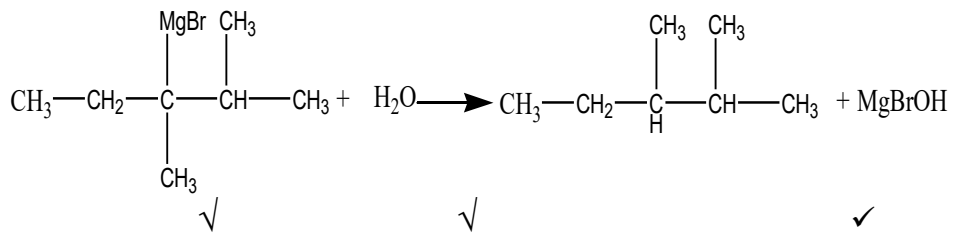
(2)

2.3 2.3.1



(3)

2.3.2



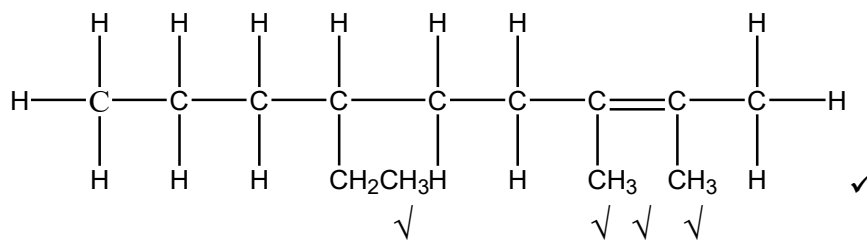
(2)

2.3.3 2,3-dimetielpentaan

(1)
[14]

VRAAG 3: ALKENE

3.1



(3)

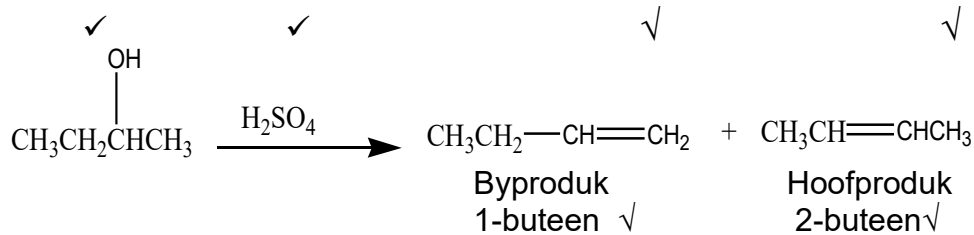
3.2 3.2.1

Reël van Saytseff: In 'n eliminasie[✓]reaksie[✓] oorheers[✓] die alkeen[✓] met die grootste[✓] aantal alkielsubstituente[✓] (d.w.s. die mees hoogs gesubstitueerde alkene).

Alternatiewe antwoord: Wanneer twee alkene[✓] 'n enkele alkohol kan vorm, is die alkeen[✓] wat oorheers[✓] die een met die meeste[✓] alkielsubstituente[✓] op die dubbelbinding.[✓]

(3)

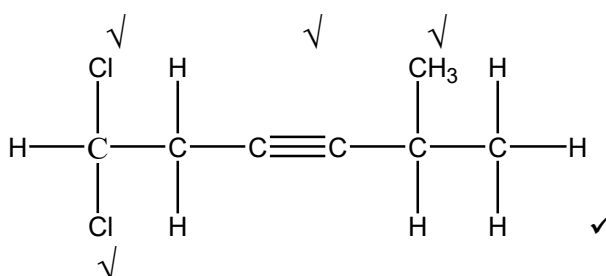
3.2.2



(4)
 [10]

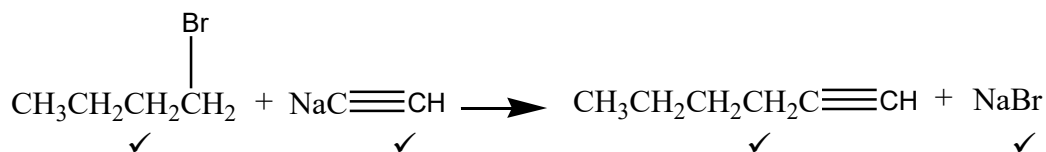
VRAAG 4: ALKYNE

4.1 Struktuurformule van 1,1-dichloor-5-metiel-3-heksyn.



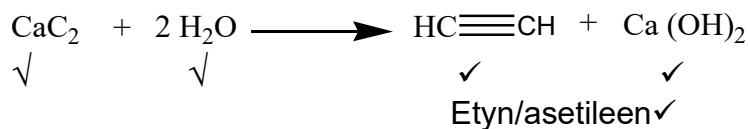
(3)

4.2



(4)

4.3

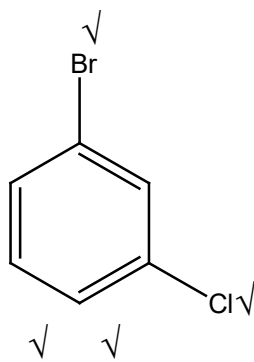


Etyen/asetileen

(4)
 [11]

VRAAG 5: AROMATIESE VERBINDINGS

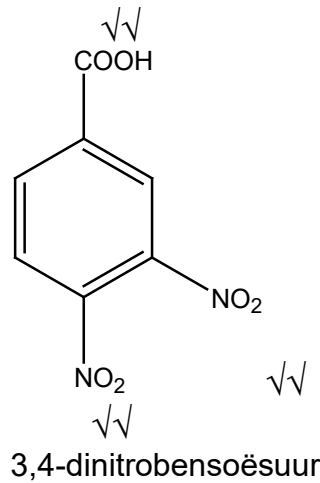
5.1 5.1.1



m-broomchloorbenseen

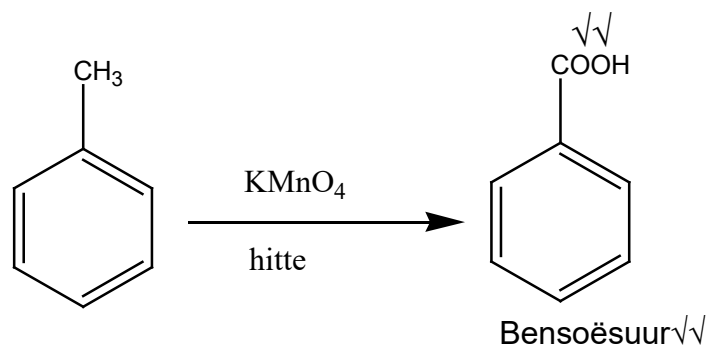
(2)

5.1.2



(3)

5.2



(2)

5.3 Nitrasie ✓✓

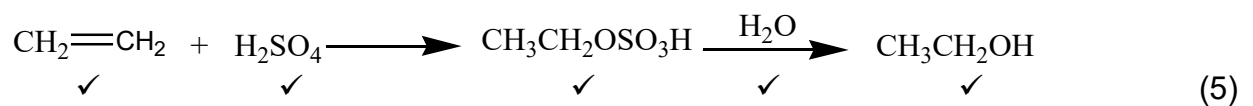
(2)

5.4 sp^2 ✓

(1)
[10]

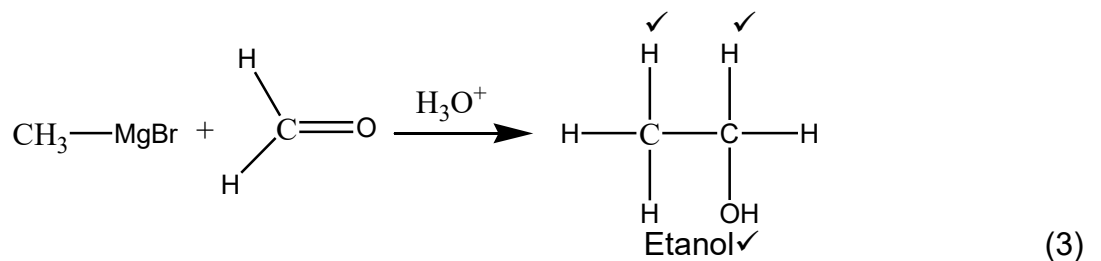
VRAAG 6: ALKOHOLE

6.1



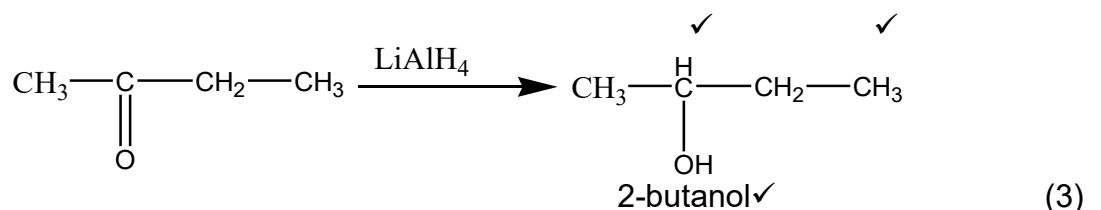
(5)

6.2 6.2.1



(3)

6.2.2



(3)

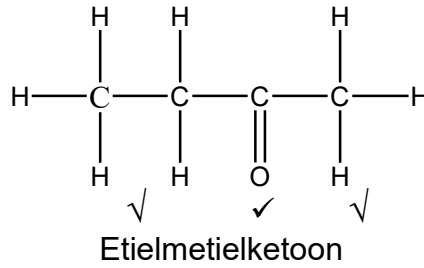
[11]

VRAAG 7: ALDEHIEDE EN KETONE

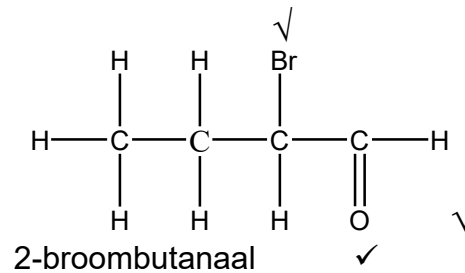
7.1 Asetoon✓

(1)

7.2 7.2.1



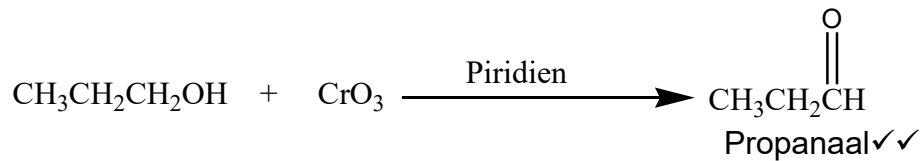
7.2.2



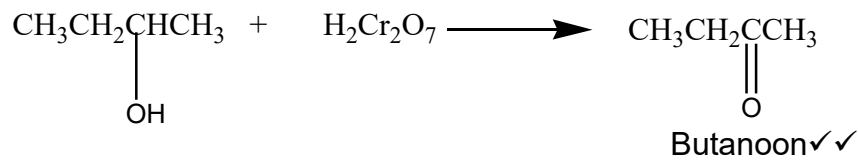
(2 × 2)

(4)

7.3 7.3.1



7.3.2



(2 × 2)

(4)

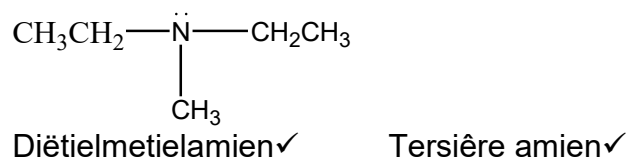
[9]

VRAAG 8: AMIENE

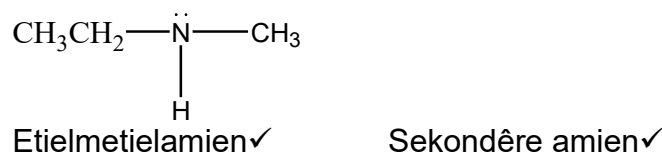
8.1 8.1.1



8.1.2

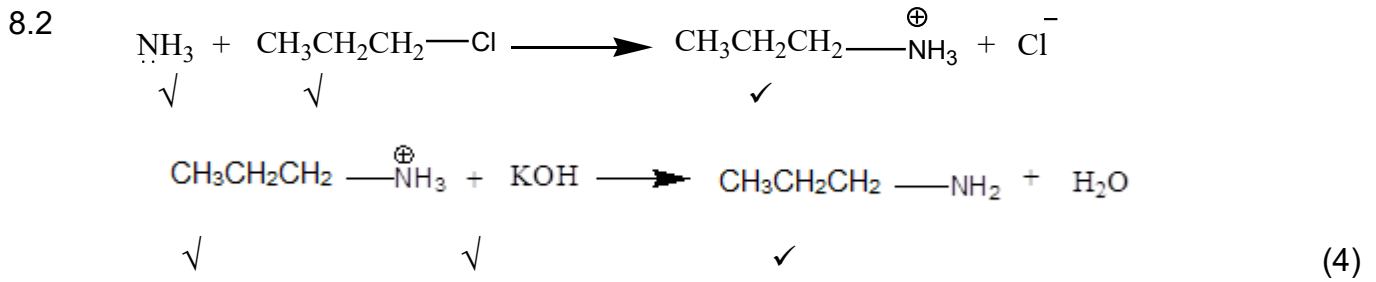


8.1.3



(3 × 2)

(6)

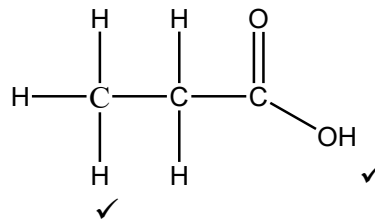


8.3 Amiene kan as Lewis-basisse geklassifiseer word omdat hulle 'n elektronpaar $\checkmark\checkmark$ kan skenk. \checkmark
 Alternatiewe antwoord: Amiene kan as Lewis-basisse geklassifiseer word omdat hulle enkel-/vry \checkmark elektronpaar $\checkmark\checkmark$ het wat hulle kan weggee. \checkmark

(2)
[12]

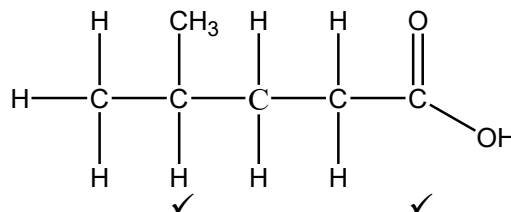
VRAAG 9: KARBOKSIELSURE

9.1 9.1.1



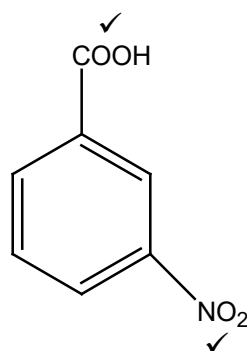
Propanoësuur

9.1.2



4-metielpentanoësuur

9.1.3



m-nitrobensoësuur

(3 × 2) (6)

9.2 Metielmetanoaat of metielformiaat $\checkmark\checkmark$ (2)
[8]

TOTAAL: 100