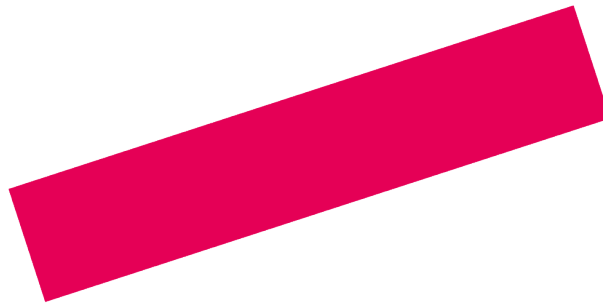


Academie toegepaste biowetenschappen en chemie

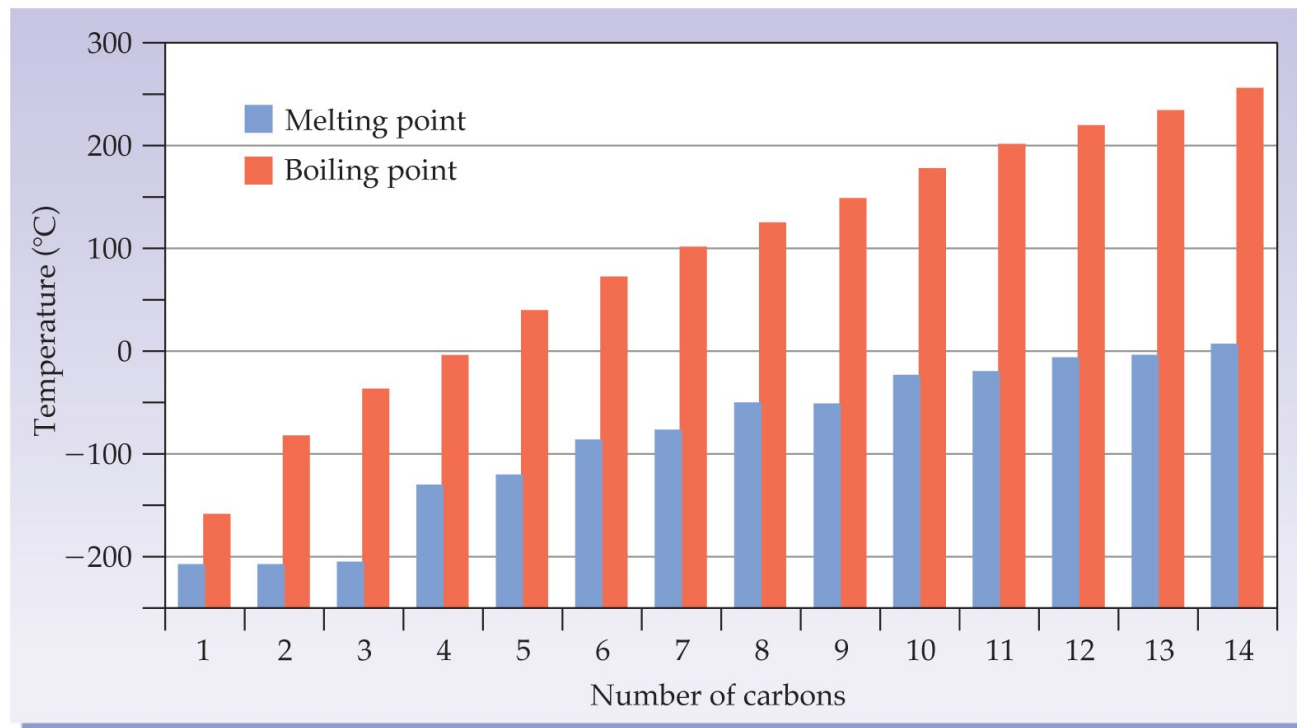
Chemie Course 3



Week 5

12.7 Eigenschappen van alkanen

Welke aantrekkende kracht kennen alkanen onderling?



12.8 Reacties van alkanen

Verbranding (volledig en onvolledig)

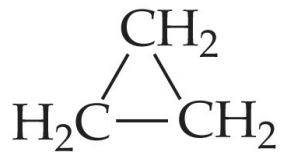
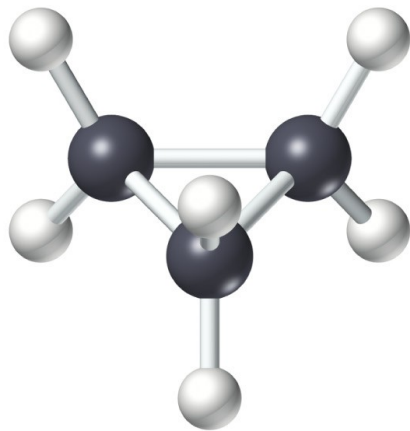


Welke is onvolledig?

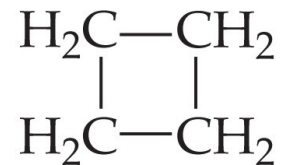
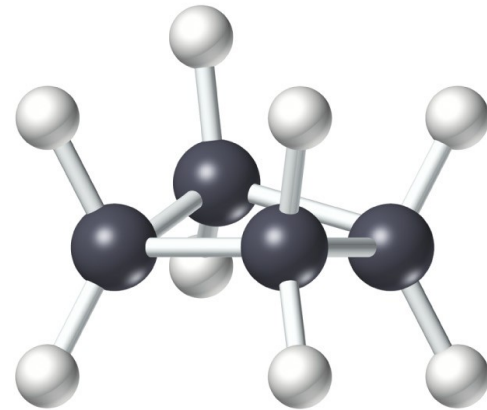
Geef de reactievergelijking voor de onvolledige verbranding van butaan, er ontstaat behalve water, koolmonoxide en koolstof in dezelfde molverhouding.



12.9 Cyclo-alkanen

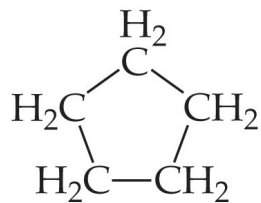
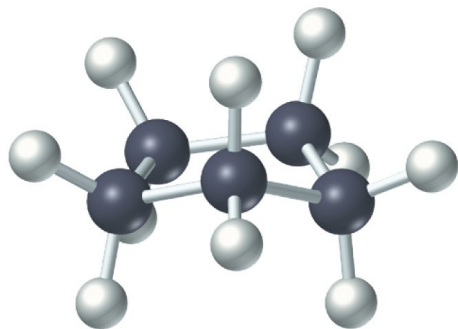


Cyclopropane
(mp $-128\text{ }^\circ\text{C}$, bp $-33\text{ }^\circ\text{C}$)

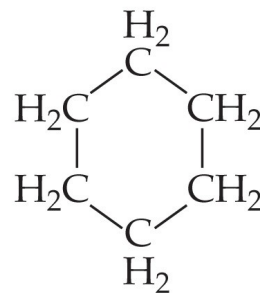
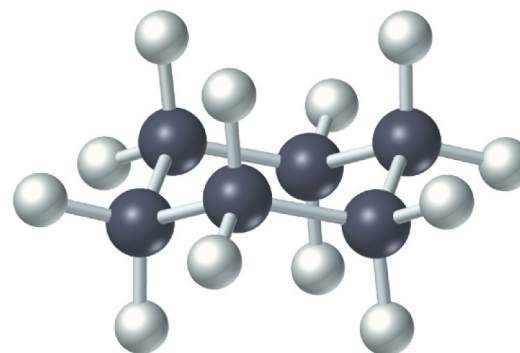


Cyclobutane
(mp $-50\text{ }^\circ\text{C}$, bp $-12\text{ }^\circ\text{C}$)

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Cyclopentane—all bond angles are near 109° .



Cyclohexane—all bond angles are near 109.5° .

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12.10 Tekenen en nomenclatuur



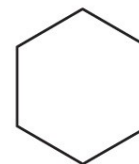
Cyclopropane



Cyclobutane



Cyclopentane

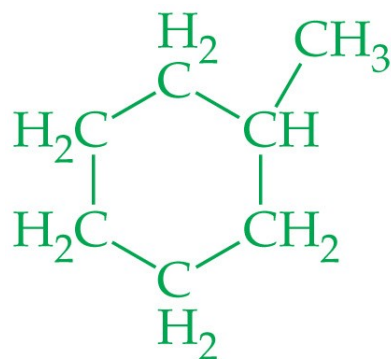


Cyclohexane

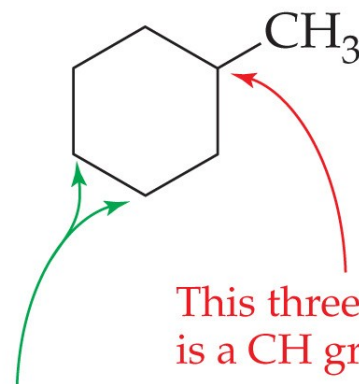


Cycloheptane

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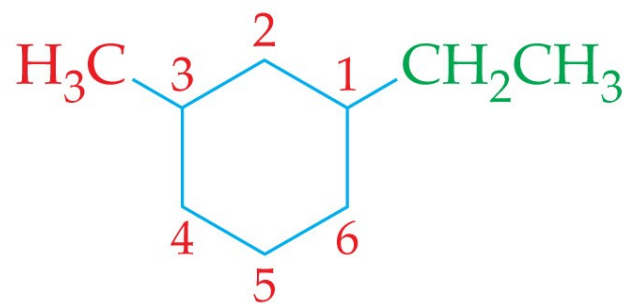
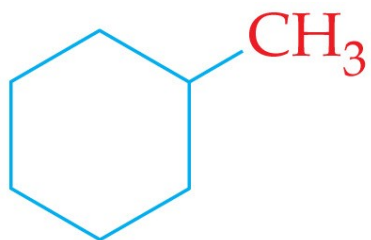
is the same as



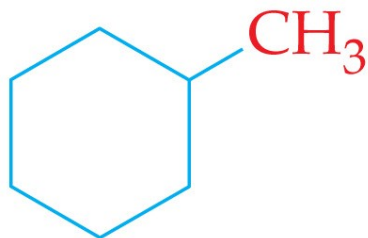
This three-way intersection
is a CH group.

These intersections represent
CH₂ groups.

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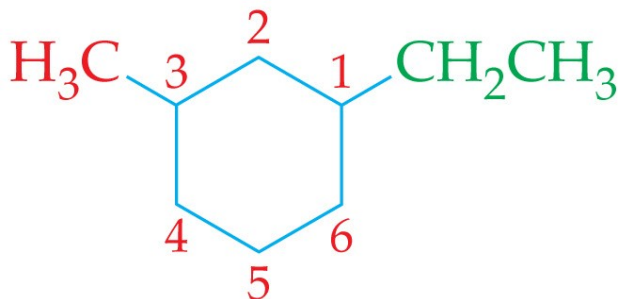
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Parent compound: Cyclohexane

Name: Methylcyclohexane
(not cyclohexylmethane)

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1-ethyl-3-methylcyclohexane

(not 1-ethyl-5-methylcyclohexane or
1-methyl-3-ethylcyclohexane or
1-methyl-5-ethylcyclohexane)

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Bronnen

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- McMurry - Fundamentals of general, organic, and biological chemistry. 7th edition, uitgever: Pearson.
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