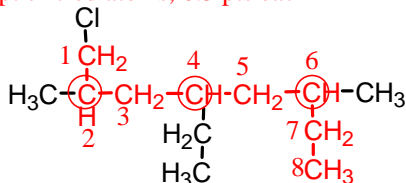


Grade 10 of 10 points

Points

- (3) 1. Name the following alkane, and circle all the carbon atoms in the structure which are **tertiary carbon atoms**.

1 pt circled atoms, 0.3 pts each

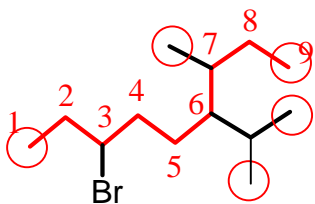


1-chloro-4-ethyl-2,6-dimethyloctane

2 pts. 0.5 if octane based and nothing else correct.
1 pt if all correct but order of groups is wrong.

- (3) 2. Name the following alkane, and circle all the carbon atoms in the structure which are **primary carbon atoms**.

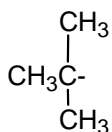
1 pt circled atoms, 0.2 pts each



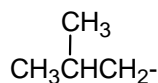
3-bromo-6-isopropyl-7-methylnonane

2 pts. 0.5 if nonane based and nothing else correct.
1 pt if all correct but order of groups is wrong

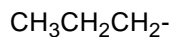
- (2) 3. Name the following alkyl groups.
0.5 pts each



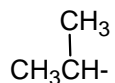
t-butyl (or tert-butyl)



isobutyl



propyl (or n-propyl)



isopropyl

- (2) 4. Draw both **condensed** (showing all H atoms) and **line** (showing no H atoms) structures for the following compound in the box to the right.

2-bromo-3-isopropyl-4-methylhexane

