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Open

Naming alkanes worksheet with answers

11 • Organic Chemistry

Organic Nomenclature Practice

| Name / Functional Group | Formula | Structural Formula |
|---|---|--------------------|
| n-butane | (1) C_4H_{10} (2) $CH_3CH_2CH_2CH_3$ | |
| name & functional group 2-butanol alcohol name only | (1) and (2) $C_4H_{10}O$ $CH_3CH_2CHOHCH_3$ | |
| trans-2-butene name only | (1) and (2) C_4H_8 $CH_3CH=CHCH_3$ | |
| butyne name only | (1) and (2) C_4H_6 $CH_3C\equiv CCH_3$ | |
| 1,3-butadiene name only | (1) only C_4H_6 $CH_2=CH=CH_2$ | |
| cyclopentane name only | (1) only C_5H_{10} | |
| cis-2-butene name only | (1) and (2) C_4H_8 $CH_3CH=CHCH_3$ | |
| trans-2-butene name & functional group methyl ethyl ether | (1) and (2) C_4H_8 $CH_3CH=CHCH_3$ (1) and (2) C_3H_8O $CH_3CH_2OCH_3$ | |

NAMING HYDROCARBONS

Name _____

Name the compounds below according to the IUPAC naming system

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| 1. | 5. |
| 2. | 6. |

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| 1 | |
| 2 | |
| 3 | |
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| 5 | |
| 6 | |
| 7 | |
| 8 | |
| 9 | |
| 10 | |

Naming alkanes-20 Questions

| | |
|----|---|
| 1. | a. methane b. ethane c. propane d. butane |
| 2. | a. butane b. propane c. pentane d. ethane |
| 3. | a. 2-methylpropane b. 1-methylbutane c. pentane d. 2-methylpentane |
| 4. | a. pentane b. 2-methylbutane c. 1-methylbutane d. 3-methylbutane |
| 5. | a. pentane b. 2-methylbutane c. 1-methylbutane d. 3-methylbutane |
| 6. | a. 2,3-dimethylbutane b. 2,2-dimethylbutane |

