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| Benzene  C6H6 | Benzene  C6H6 | Benzene  C6H6 |
| **Simplified (empirical) ratio:**  **C:H**  **1:1** | **Ratio by mass:**  **C:H**  **12:1** | **Fraction of total mass:**  **C:H** |
| Benzene  C6H6 | Propene  C3H6 | Propene  C3H6 |
| **% of each element by mass:**  **C: 92.3%**  **H: 7.7%** | **Simplified (empirical) ratio:**  **C:H**  **1:2** | **Ratio by mass:**  **C:H**  **12:2**  **Simplified 6:1** |
| Propene  C3H6 | Propene  C3H6 | Hexamethylbenzene  C12H18 |
| **Fraction of total mass:**  **C:H** | **% of each element by mass:**  **C: 85.7%**  **H: 14.3%** | **Simplified (empirical) ratio:**  **C:H**  **2:3** |

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| Hexamethylbenzene  C12H18 | Hexamethylbenzene  C12H18 | Hexamethylbenzene  C12H18 |
| **Ratio by mass:**  **C:H**  **24:3**  **Simplified 8:1** | **Fraction of total mass:**  **C:H** | **% of each element by mass:**  **C: 88.9%**  **H: 11.1%** |
| Glucose  C6H12O6 | Glucose  C6H12O6 | Glucose  C6H12O6 |
| **Simplified (empirical) ratio:**  **C:H:O**  **1:2:1** | **Ratio by mass:**  **C:H:O**  **12:2:16**  **Simplified 6:1:8** | **Fraction of total mass:**  **C:H:O** |
| Glucose  C6H12O6 | Calcium Carbonate  CaCO3 | Calcium Carbonate  CaCO3 |
| **% of each element by mass:**  **C: 40%**  **H: 6.7%**  **O: 53.3%** | **Simplified (empirical) ratio:**  **Ca:C:O**  **1:1:3** | **Ratio by mass:**  **Ca:CO**  **40:12:48**  **Simplified 10:3:12** |

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| Calcium Carbonate  CaCO3 | Calcium Carbonate  CaCO3 | Silane  SiH4 |
| **Fraction of total mass:**  **Ca:C:O** | **% of each element by mass:**  **Ca: 40%**  **C: 12%**  **O: 48%** | **Simplified (empirical) ratio:**  **Si:H**  **1:4** |
| Silane  SiH4 | Silane  SiH4 | Silane  SiH4 |
| **Ratio by mass:**  **Si:H**  **28:4**  **Simplified 7:1** | **Fraction of total mass:**  **Si:H** | **% of each element by mass:**  **Si: 87.5%**  **H: 12.5%** |
| Ethylenediamine  C2H8N2 | Ethylenediamine  C2H8N2 | Ethylenediamine  C2H8N2 |
| **Simplified (empirical) ratio:**  **C:H:N**  **1:4:1** | **Ratio by mass:**  **C:H:N**  **12:4:14**  **Simplified 6:2:7** | **Fraction of total mass:**  **C:H:N** |

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| Ethylenediamine  C2H8N2 | Methane  CH4 | Methane  CH4 |
| **% of each element by mass:**  **C: 40%**  **H: 13.3%**  **N: 46.7%** | **Simplified (empirical) ratio:**  **C:H**  **1:4** | **Ratio by mass:**  **C:H**  **12:4**  **Simplified 3:1** |
| Methane  CH4 | Methane  CH4 | Ethane-1,2-diol  C2H6O2 |
| **Fraction of total mass:**  **C:H** | **% of each element by mass:**  **C: 75%**  **H: 25%** | **Simplified (empirical) ratio:**  **C:H:O**  **1:3:1** |
| Ethane-1,2-diol  C2H6O2 | Ethane-1,2-diol  C2H6O2 | Ethane-1,2-diol  C2H6O2 |
| **Ratio by mass:**  **C:H:O**  **12:3:16** | **Fraction of total mass:**  **C:H:O** | **% of each element by mass:**  **C: 38.7%**  **H: 9.7%**  **O: 51.6%** |

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| Ethane  C2H6 | Ethane  C2H6 | Ethane  C2H6 |
| **Simplified (empirical) ratio:**  **C:H**  **1:3** | **Ratio by mass:**  **C:H**  **12:3**  **Simplified 4:1** | **Fraction of total mass:**  **C:H** |
| Ethane  C2H6 | Naphthalene  C10H8 | Naphthalene  C10H8 |
| **% of each element by mass:**  **C: 80%**  **H: 20%** | **Simplified (empirical) ratio:**  **C:H**  **5:4** | **Ratio by mass:**  **C:H**  **60:4**  **Simplified 15:1** |
| Naphthalene  C10H8 | Naphthalene  C10H8 | Ethanedioic acid  C2H2O4 |
| **Fraction of total mass:**  **C:H** | **% of each element by mass:**  **C: 93.75%**  **H: 6.25%** | **Simplified (empirical) ratio:**  **C:H:O**  **1:1:2** |

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| Ethanedioic acid  C2H2O4 | Ethanedioic acid  C2H2O4 | Ethanedioic acid  C2H2O4 |
| **Ratio by mass:**  **C:H:O**  **12:1:32** | **Fraction of total mass:**  **C:H** | **% of each element by mass:**  **C: 26.7%**  **H: 2.2%**  **O: 71.1%** |