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| BenzeneC6H6 | BenzeneC6H6 | BenzeneC6H6 |
| **Simplified (empirical) ratio:****C:H****1:1** | **Ratio by mass:****C:H****12:1** | **Fraction of total mass:****C:H** |
|  BenzeneC6H6 | PropeneC3H6 | PropeneC3H6 |
| **% 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** |
| PropeneC3H6 | PropeneC3H6 | HexamethylbenzeneC12H18 |
| **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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| HexamethylbenzeneC12H18 | HexamethylbenzeneC12H18 | HexamethylbenzeneC12H18 |
| **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%** |
| GlucoseC6H12O6 | GlucoseC6H12O6 | GlucoseC6H12O6 |
| **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** |
| GlucoseC6H12O6 | Calcium CarbonateCaCO3 | Calcium CarbonateCaCO3 |
| **% 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 CarbonateCaCO3 | Calcium CarbonateCaCO3 | SilaneSiH4 |
| **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** |
| SilaneSiH4 | SilaneSiH4 | SilaneSiH4 |
| **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%** |
| EthylenediamineC2H8N2 | EthylenediamineC2H8N2 | EthylenediamineC2H8N2 |
| **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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| EthylenediamineC2H8N2 | MethaneCH4 | MethaneCH4 |
| **% 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** |
| MethaneCH4 | MethaneCH4 | Ethane-1,2-diolC2H6O2 |
| **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-diolC2H6O2 | Ethane-1,2-diolC2H6O2 | Ethane-1,2-diolC2H6O2 |
| **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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| EthaneC2H6 | EthaneC2H6 | EthaneC2H6 |
| **Simplified (empirical) ratio:****C:H****1:3** | **Ratio by mass:****C:H****12:3****Simplified 4:1** | **Fraction of total mass:****C:H** |
| EthaneC2H6 | NaphthaleneC10H8 | NaphthaleneC10H8 |
| **% 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** |
| NaphthaleneC10H8 | NaphthaleneC10H8 | Ethanedioic acidC2H2O4 |
| **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 acidC2H2O4 | Ethanedioic acidC2H2O4 | Ethanedioic acidC2H2O4 |
| **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%** |