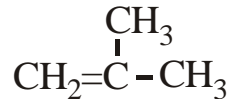


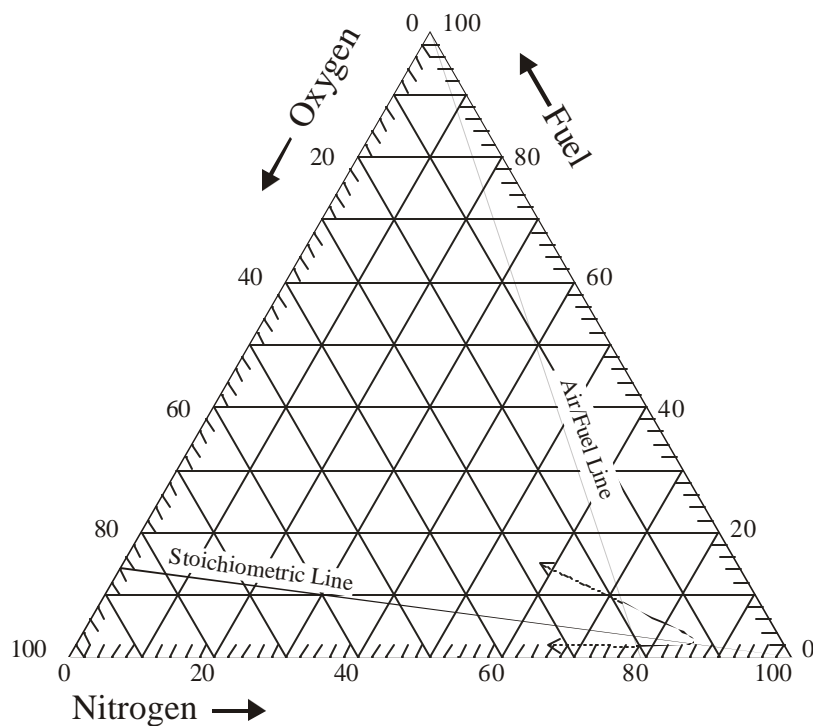
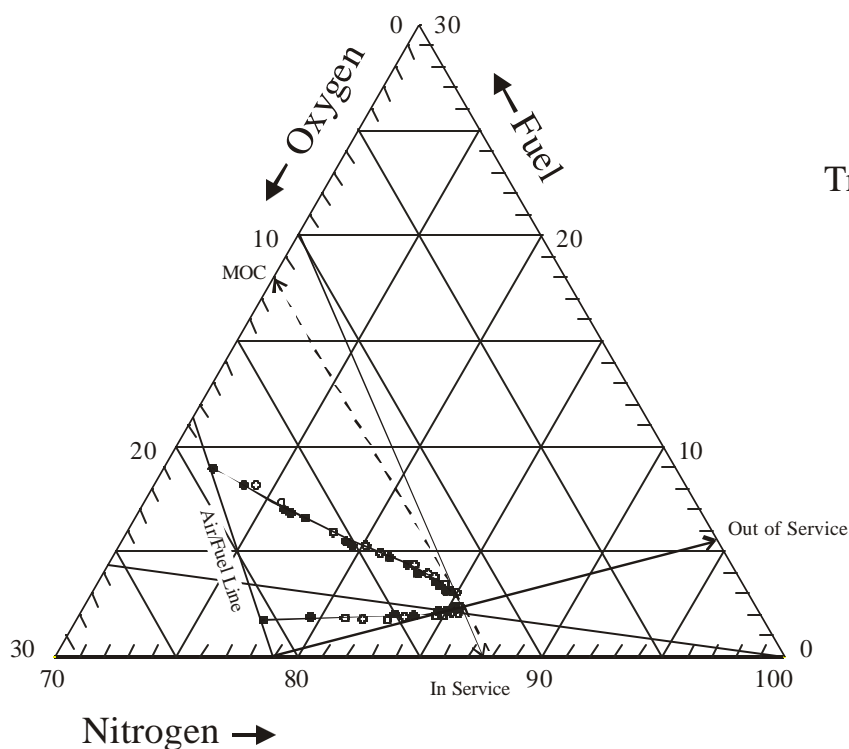
2-Methylpropene (Isobutylene)



26°C and Atmospheric Pressure



Triangular Plot Data From Reference 2



| | |
|--|----------------------------------|
| Molecular weight: | 56.11 |
| Boiling point: ¹ | -6.85°C |
| LFL: ² | 9.0% |
| UFL: ² | 1.8% |
| MOC: | 12% O ₂ |
| Flash point: ³ | -76.11°C |
| Vapor Pressure | |
| Equation: ⁴ | $\ln P = A - \frac{B}{T(K) + C}$ |
| | P (mmHg) |
| | 190 to 290K |
| | A = 15.7528 |
| | B = 2125.75 |
| | C = -33.15 |
| Concentration of vapor in air at 1 atm.: | **% |
| From Figure: | |
| In service | 87.5% N ₂ |
| Concentrations: | 12.5% O ₂ |
| Out of service | 5.5% Fuel |
| Concentrations: | 94.5% N ₂ |

¹ Lide, D. R., Editor in chief, *Handbook of Chemistry and Physics*, 71st ed., CRC Press, Inc., Boston, 1991

² Zabetakis, M. G., *Flammability Characteristics of Combustible Gases and Vapors*, U.S. Dept. of the Interior, Bureau of Mines, No. 627, 1965

³ Stephenson, R. M., *Flash Points of Organic and Organometallic Compounds*, Elsevier Science Publishing Co., Inc., New York, 1987

⁴ Reid, R. C., Prausnitz, J. M., and Sherwood, T. R., *The Properties of Gases and Liquids*, 3rd ed. McGraw Hill, New York, 1977