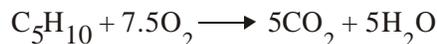


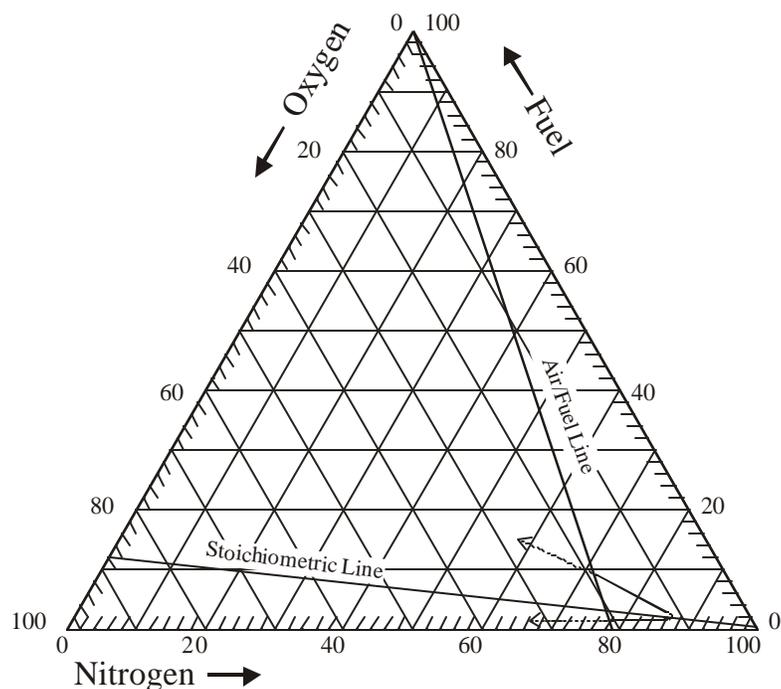
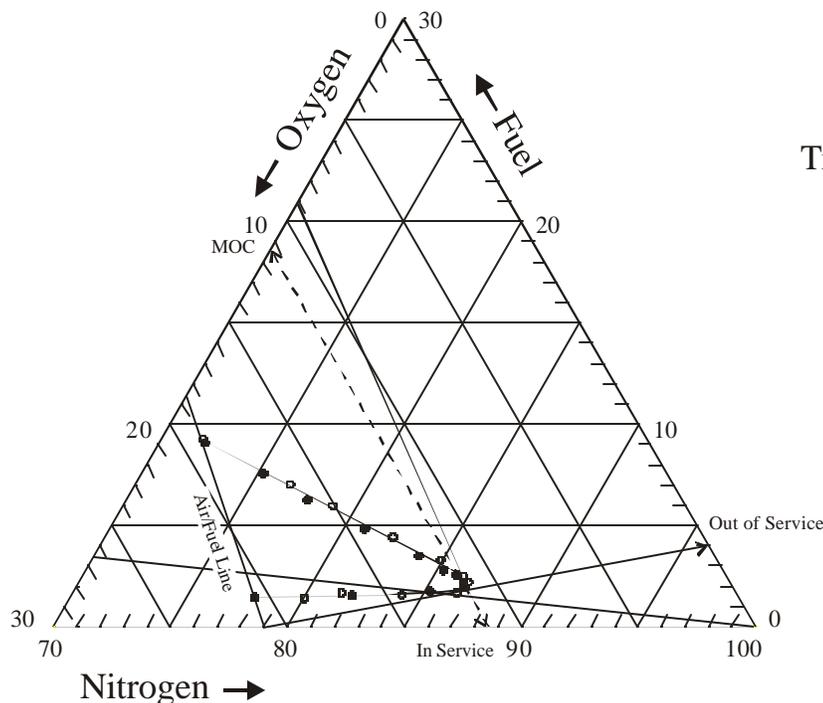
3-Methyl-1-Butene



26°C and Atmospheric Pressure



Triangular Plot Data From Reference 2



Molecular weight:	70.14
Boiling point: ¹	20.15°C
LFL: ²	1.5%
UFL: ²	9.1%
MOC:	11.5% O ₂
Flash point: ³	-56.67°C

Vapor Pressure

Equation:⁴ $\ln P = A - \frac{B}{T(K) + C}$

P (mmHg)
210 to 315K
A = 15.7179
B = 2333.61
C = -36.33

Concentration of vapor in air at 1 atm.: **%

From Figure:

In service Concentrations:	88.5% N ₂ 11.5% O ₂
Out of service Concentrations:	4% Fuel 96% 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