

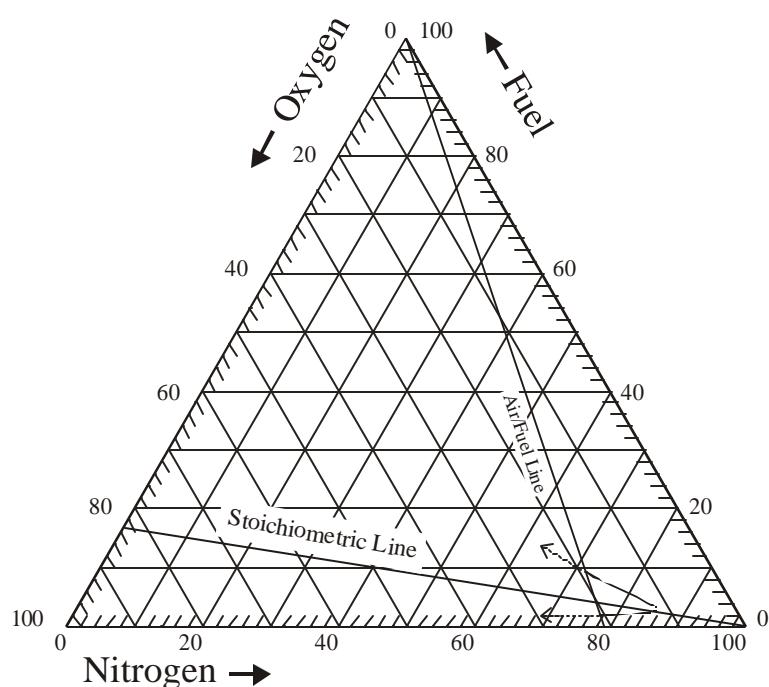
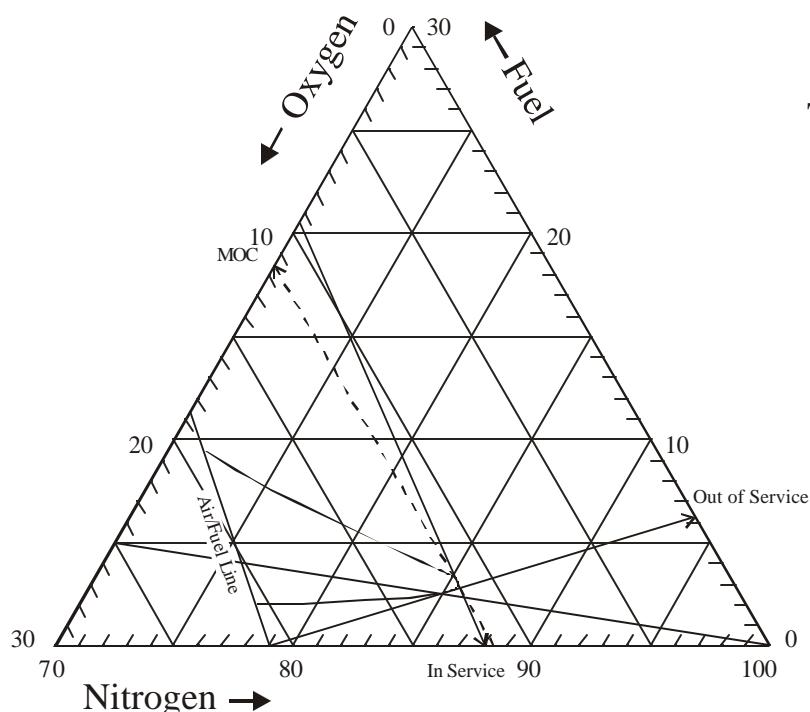
Propane



25°C and Atmospheric Pressure



Triangular Plot Data From Reference 2



Molecular weight:	44.1
Boiling point: ¹	-42.1°C
LFL: ²	2.1%
UFL: ²	9.5%
MOC:	11.6% O ₂
Flash point: ³	-104.44 °C

Vapor Pressure Equation: ⁴	$\ln P = A - \frac{B}{T(K) + C}$
P (mmHg)	
169 to 249K	
A = 15.7260	
B = 1872.46	
C = -25.16	

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

From Figure:	
In service	88% N ₂
Concentrations:	12% O ₂
Out of service	6.2% Fuel
Concentrations:	93.8% N ₂

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

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

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

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