

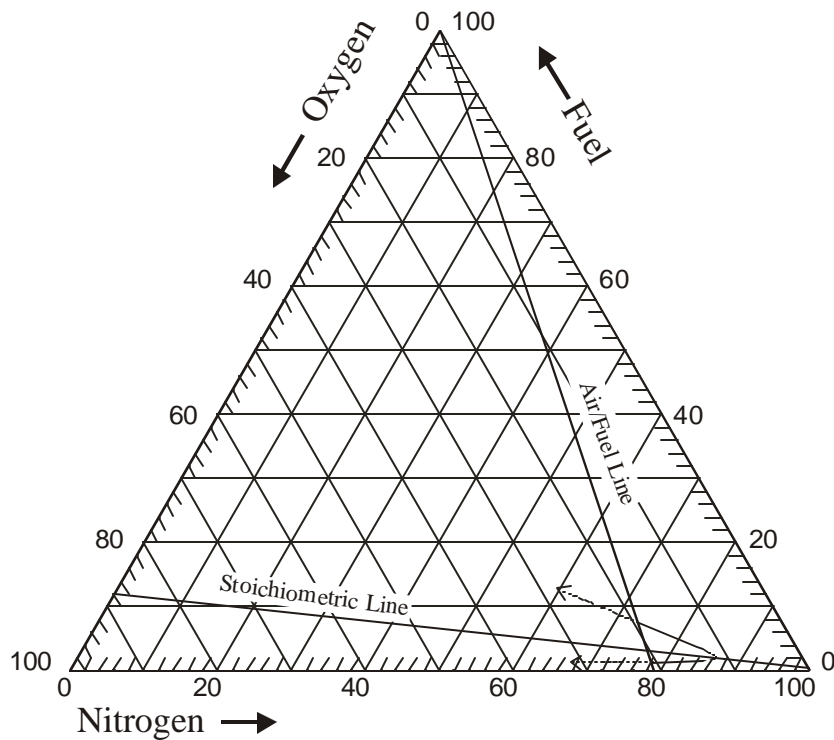
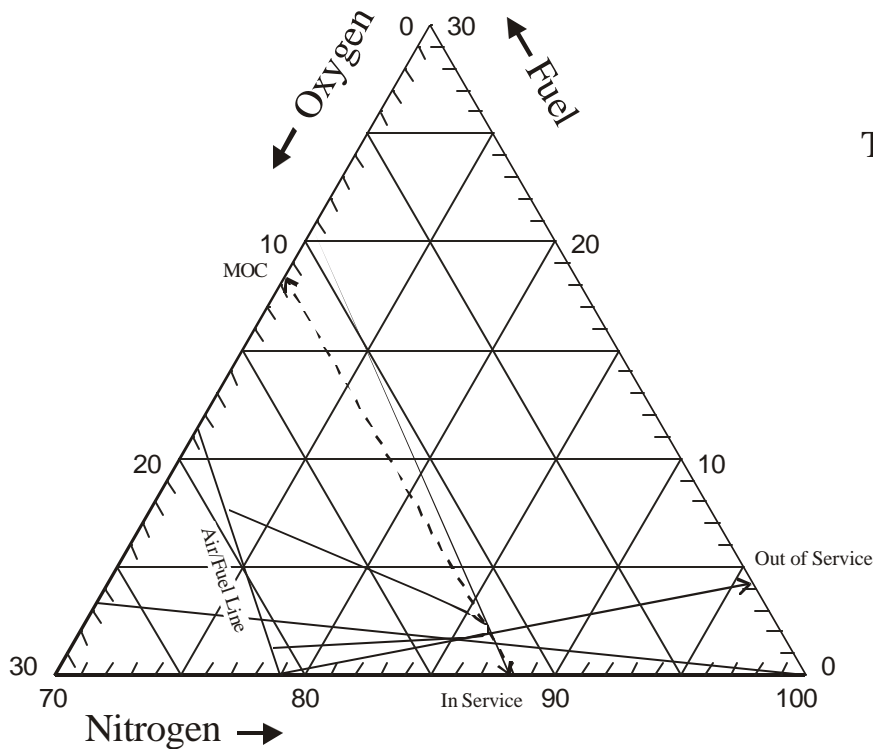
n-Pentane



25°C and Atmospheric Pressure



Triangular Plot Data From Reference 2



Molecular weight:	72.2
Boiling point: ¹	36.1°C
LFL: ²	1.3%
UFL: ²	7.6%
MOC:	11.8% O ₂
Flash point: ³	-49.44°C

Vapor Pressure	
Equation: ⁴	$\ln P = A - \frac{B}{T(K) + C}$
P (mmHg)	220 to 330K
A =	15.8333
B =	2477.07
C =	-39.94

Concentration of vapor in air at 1 atm.: 67.5%

From Figure:

In service	88% N ₂
Concentrations:	12% O ₂
Out of service	4.2% Fuel
Concentrations:	95.8% 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