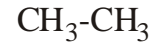


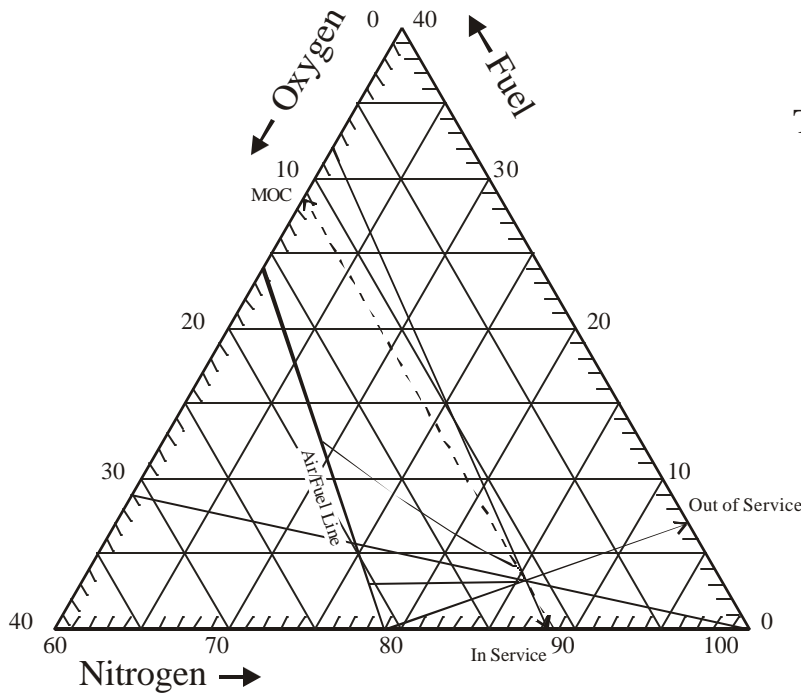
Ethane



25°C and Atmospheric Pressure



Triangular Plot Data From Reference 2



Molecular weight:	30.07
Boiling point: ¹	-88.65°C
LFL: ²	3.0%
UFL: ²	12.5%
MOC:	11.2% O ₂
Flash point: ³	-135 °C

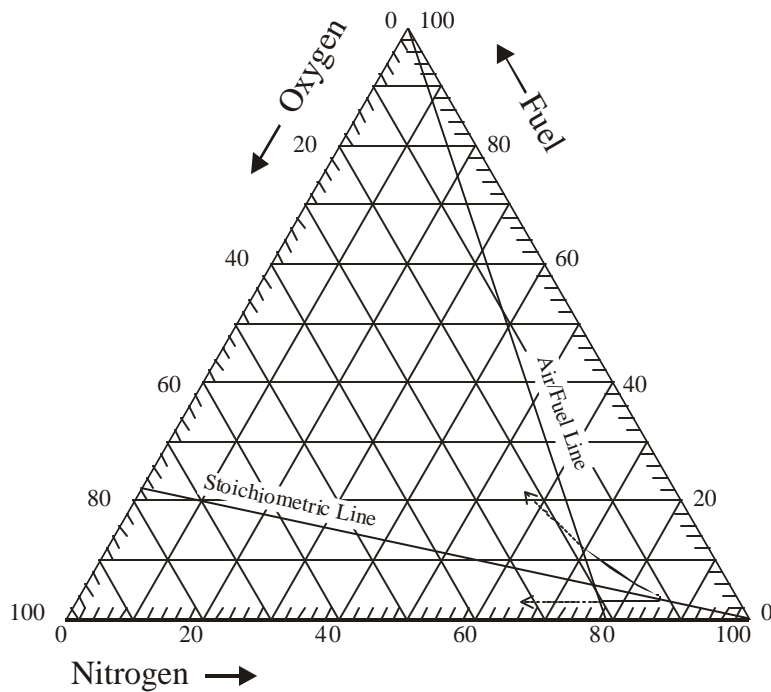
Vapor Pressure
Equation:⁴ $\ln P = A - \frac{B}{T(K) + C}$

P (mmHg)
130 to 199K
A = 15.6637
B = 1511.42
C = -17.16

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

From Figure:

In service	88.3% N ₂
Concentrations:	11.7% O ₂
Out of service	7% Fuel
Concentrations:	93% 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*, 3rd ed. McGraw Hill, New York, 1977