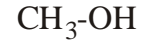
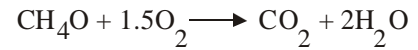


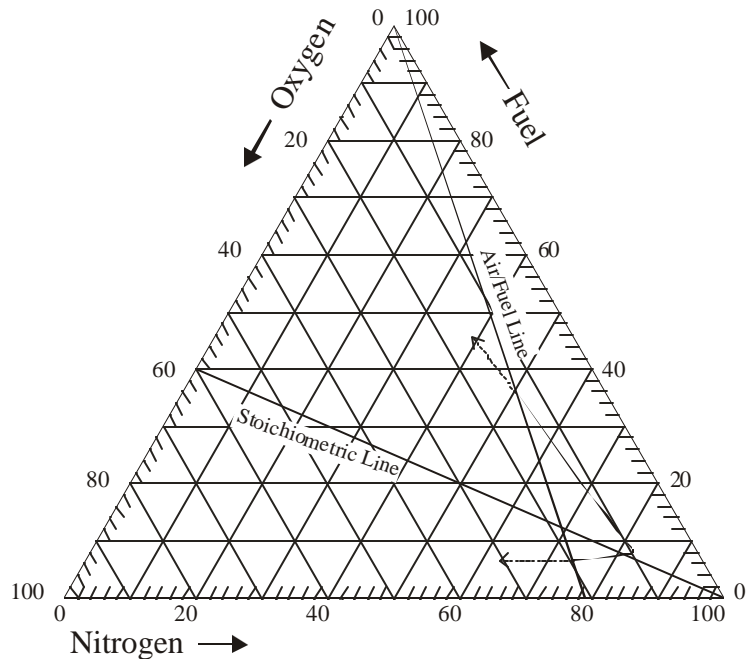
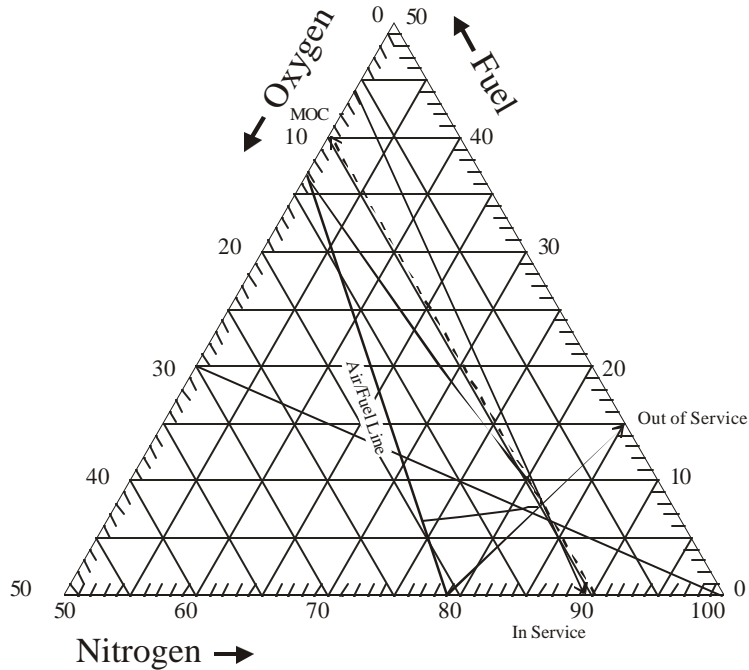
Methanol



25°C and Atmospheric Pressure



Triangular Plot Data From Reference 2



Molecular weight:	32.04
Boiling point: ¹	64.7°C
LFL: ²	6.6%
UFL: ²	37%
MOC:	9.9% O ₂
Flash point: ³	11°C

Vapor Pressure Equation:⁴

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

P (mmHg)
257 to 364K
A = 18.5875
B = 3626.55
C = -34.29

Concentration of vapor in air at 1 atm.: 16.7%

From Figure:

In service Concentrations:	89.2% N ₂ 10.8% O ₂
Out of service Concentrations:	15% Fuel 85% 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