Table 1. Required Ratios (v/v) and Minimum Carbon Dioxide Concentrations to Prevent Combustion

Vapor Fuels	CO_2/air[a] (v/v)	O_2 Concentration (%)	Theoretical Minimum CO_2 Concentration[b] (%)	Minimum Design CO_2 Concentration (%)
Carbon Disulfide	1.59	8.1	60	72
Hydrogen	1.54	8.2	62	75
Ethylene	0.68	12.5	41	49
Ethyl Ether	0.51	13.9	38	46
Ethanol	0.48	14.2	36	43
Propane	0.41	14.9	30	36
Acetone	0.41	14.9	27	34
Hexane	0.40	15.0	29	35
Benzene	0.40	15.0	31	37
Methane	0.33	15.7	25	34

[a] Friedman 1989.
[b] Coward and Jones 1952.