

SPECIFIC GRAVITY OF GASES

Dry Air (1 cu. Ft. at 60°F. and 29.92" Hg. Weighs .07638 pound)		1.000
Acetylene	C ₂ H ₂	0.91
Ethane	C ₂ H ₄	1.05
Methane	CH ₄	0.554
Ammonia	NH ₃	0.596
Carbon-dioxide	CO ₂	1.53
Carbon_monoxide	CO	0.967
Butane	C ₄ H ₁₀	2.067
Butene	C ₄ H ₈	1.93
Chlorine	Cl ₂	2.486
Helium	He	0.138
Hydrogen	H ₂	0.0696
Nitrogen	N ₂	0.9718
Oxygen	O ₂	1.1053

SPECIFIC GRAVITY OF LIQUIDS

LIQUID	TEMP °F	SPECIFIC GRAVITY
Water (1 cu.-ft. weights 62.41 lb.)	50	1.00
Brine (Sodium Chloride 25%)	32	1.20
Pennsylvania Crude Oil	80	0.85
Fuel Oil No. 1 and 2	85	0.95
Gasoline	80	0.74
Kerosene	85	0.82
Lubricating Oil SAE 10-20-30	115	0.94

TYPICAL BTU VALUES OF FUELS

ASTM RANK SOLIDS	BTU VALUES PER POUND
Anthracite Class I	11,230
Bituminous Class II Group 1	14,100
Bituminous Class II Group 3	13,080
Sub-Bituminous Class III Group 1	10,810
Sub-Bituminous Class III Group 2	9,670
LIQUIDS	BTU VALUES PER GALLON
Fuel Oil No. 1	136,000
Fuel Oil No. 2	138,000
Fuel Oil No. 4	145,000
Fuel Oil No. 5	148,000
Fuel Oil No. 6	152,000
GASES	BTU VALUES PER CU. FT.
Natural Gas	935 to 1132
Producers Gas	163
Illuminating Gas	534
Mixed (Coke oven and water gas)	545