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Appendix A – Gas Mixture Compositions

Gas composition	Natural Gas Mixture	Mixed Refrigerant	CO ₂ Gas Mixture
Methane	0.829700	0.757800	0.041018
Nitrogen	0.060810	0.079780	0.001157
Carbon dioxide	0.029460	0.000000	0.987920
Ethane	0.042890	0.002530	0.005496
Propane	0.017000	0.024720	0.001640
n-Butane	0.005128	0.047480	0.000393
i-Butane	0.001188	0.115113	0.000508
n-Pentane	0.001838	0.000078	0.000111
i-Pentane	0.001019	0.001319	0.000220
n-Hexane	0.001100	0.000000	0.000045
n-Heptane	0.004157	0.000000	0.001103
Water	0.000000	0.000000	0.000000
Ethylene	0.000000	0.338900	0.000000
Propylene	0.000000	0.000270	0.000000

Appendix B – Tabulated values of Z and k of the gas compositions for various EOS

NIST, GERG, AGAS and PR EOS calculations are done via REFPROP software. RK, SRK, LKP and BWRS-NS calculations are compiled by the authors independently.

Factors for z	Temp. K	Pure Methane				1.868135	1.986	2.04	2.06
		2.800	3.000	3.200	3.400				
EOS	100	0.9675	0.9071	0.8602	0.8245	0.7928	0.7649	0.7401	0.7178
Deviation to NIST		-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
EOS	200	0.9808	0.9601	0.9401	0.9204	0.9001	0.8801	0.8601	0.8401
Deviation to NIST		0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
EOS	300	0.9900	0.9800	0.9700	0.9600	0.9500	0.9400	0.9300	0.9200
Deviation to NIST		0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
EOS	400	0.9950	0.9900	0.9850	0.9800	0.9750	0.9700	0.9650	0.9600
Deviation to NIST		0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
EOS	500	0.9975	0.9950	0.9925	0.9900	0.9875	0.9850	0.9825	0.9800
Deviation to NIST		0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
EOS	600	0.9985	0.9975	0.9965	0.9955	0.9945	0.9935	0.9925	0.9915
Deviation to NIST		0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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