TABLE A-3—RECOMMENDED BIP's FOR PR EOS AND SRK EOS FOR NONHYDROCARBON/HYDROCARBON COMPONENT PAIRS

	PR EOS*			SRK EOS**		
	N_2	CO_2	H_2S	N_2	CO_2	H_2S
N_2	—	—	—	—	—	—
CO_2	0.000	—	—	0.000	—	—
H_2S	0.130	0.135	—	0.120†	0.120	—
C_1	0.025	0.105	0.070	0.020	0.120	0.080
C_2	0.010	0.130	0.085	0.060	0.150	0.070
C_3	0.090	0.125	0.080	0.080	0.150	0.070
i-C_4	0.095	0.120	0.075	0.080	0.150	0.060
C_4	0.095	0.115	0.075	0.080	0.150	0.060
i-C_5	0.100	0.115	0.070	0.080	0.150	0.060
C_5	0.110	0.115	0.070	0.080	0.150	0.060
C_6	0.110	0.115	0.055	0.080	0.150	0.050
C_{7+}	0.110	0.115	0.050‡	0.080	0.150	0.030‡

*Nonhydrocarbon BIP's from Ref. 1.

**Nonhydrocarbon BIP's from Ref. 2.

†Not reported in Ref. 2.

‡Should decrease gradually with increasing carbon number.

BIP = binary interaction parameter, PR EOS = Peng-Robinson equation of state, and SRK EOS = Soave-Redlich-Kwong equation of state.