

TABLE 2. Selected properties of molecules

<u>Molecule</u>	<u>ω</u>	<u>α</u>	<u>μ</u>	<u>Q</u>
A _r	0	16.3	0	0
H ₂	---	7.9	0	0.63
CH ₄	0.013	26.0	0	0
O ₂	0.021	16.0	0	---
N ₂	0.040	17.0	0	1.5
CO	0.049	19.5	0.10	---
C ₂ H ₄	0.085	42.6	0	---
CO ₂	0.225	26.5	0	4.1
HCl	---	26.3	1.04	---
H ₂ S	---	37.8	(0.92)	---
NH ₃	0.250	22.6	1.47	1.0
SO ₂	---	37.2	1.63	---
H ₂ O	0.334	15.9	1.83	2.0
HF	---	24.6	1.91	---

Sources: Prausnitz (1969), Moelwyn-Hughes (1961),
Hirschfelder, et al. (1964).

Note: a '---' indicates data not available, ω is the accentric factor, α the polarizability, μ the dipole moment, and Q the quadrupole moment.