Table 8.3. *Properties of gas radiators, STP*

Gas	Formula	$\eta_0{}^a$ ($\times 10^{-4}$)	θ_{max} (degrees)	dN/dl γs/cm (350–500 nm)	T_{cr} (°C)	P_{cr} (atm)
Helium	He	0.35	0.48	0.027	−268	2.3
Neon	Ne	0.67	0.66	0.052	−229	26
Hydrogen	H_2	1.38	0.95	0.11	−240	13
Oxygen	O_2	2.72	1.33	0.21	−119	50
Argon	Ar	2.84	1.36	0.22	−122	48
Nitrogen	N_2	2.97	1.40	0.23	−147	34
Methane	CH_4	4.41	1.70	0.34	−83	46
Carbon dioxide	CO_2	4.50	1.72	0.35	31	73
Ethylene	C_2H_4	6.96	2.14	0.54	10	51
Ethane	C_2H_6	7.06	2.15	0.55	32	49
Freon 13	$CClF_3$	7.82	2.27	0.61	29	38
Sulfur hexafluoride	SF_6	7.83	2.27	0.61	46	37
Propane	C_3H_8	10.05	2.57	0.78	22	9
Freon 12	CCl_2F_2	11.27	2.72	0.88	112	41
Freon 114	$C_2Cl_2F_4$	14	3.03	1.09	146	32
Pentane	C_5H_{12}	17.1	3.3	1.3	197	33