

Table I: Symmetry-adapted components of the collision-induced dipole moment of H₂-Ar pair

R/au	$\Delta\mu_{01}^{(1)}(R)$	$-\Delta\mu_{21}^{(1)}(R)$	$\Delta\mu_{23}^{(1)}(R)$	$\Delta\alpha_{45}^{(2)}(R)$
2.0	1.192	0.3268	0.1707	-0.0349
2.5	0.7695	0.2502	0.1438	-0.0182
3.0	0.4104	0.1441	0.1135	-0.00074
4.0	0.0935	0.0364	0.0478	0.0029
5.0	0.0197	0.0078	0.0188	0.0011
6.0	0.0021	0.0014	0.0083	0.00034
7.0	-0.000054	0.00023	0.0043	0.00012
8.0	-0.000012	0.000027	0.0024	0.000013
9.0	-0.000065	-0.000038	0.0014	-0.00003
10.0	-0.000041	-0.000039	0.00096	-0.00007
12.0	-0.000038	-0.000033	0.00045	$3.5 \cdot 10^{-6}$
14.0	$-2.8 \cdot 10^{-6}$	0.000025	0.00026	0.000053
16.0	0.000018	0.000034	0.00012	0.000012
18.0	0.000011	0.000017	0.0001	$-8.5 \cdot 10^{-6}$
20.0	$4.8 \cdot 10^{-6}$	$-7.6 \cdot 10^{-7}$	0.00009	-0.00003

Table II: Symmetry-adapted components of the isotropic part of the collision-induced polarizability of H₂-He pair

R/au	$\Delta\alpha_{00}^{(0)}(R)$	$\Delta\alpha_{22}^{(0)}(R)$	$\Delta\alpha_{44}^{(0)}(R)$
3.0	0.5812	-0.1138	-0.008
3.5	0.4888	-0.0450	-0.0036
4.0	0.3264	-0.0212	-0.0015
4.5	0.3263	-0.0212	-0.0015
5.0	0.1016	-0.0126	-0.0003
5.5	0.0493	-0.0118	-0.000029
6.0	0.0216	-0.0106	-0.00016
7.0	0.0022	-0.008	-0.00011
8.0	-0.0099	-0.0057	-0.00005
9.0	-0.0009	-0.004	-0.000018
10.0	-0.0005	-0.0029	-0.000017
11.0	-0.0003	-0.0022	-0.000016
12.0	-0.00018	-0.0017	-0.000015

Table III: Symmetry-adapted components of the anisotropic part of the collision-induced polarizability of H₂-He pair

R/au	$\Delta\alpha_{02}^{(2)}(R)$	$\Delta\alpha_{20}^{(2)}(R)$	$\Delta\alpha_{22}^{(2)}(R)$	$\Delta\alpha_{24}^{(2)}(R)$	$\Delta\alpha_{42}^{(2)}(R)$	$\Delta\alpha_{44}^{(2)}(R)$
3.0	0.3233	0.01536	-0.0668	0.0925	0.0058	-0.00263
3.5	0.2074	-0.0103	-0.0440	0.04969	0.0034	-0.0023
4.0	0.1814	-0.0138	-0.0318	0.02597	0.0014	-0.0013
4.5	0.1786	-0.0104	-0.0255	0.0144	0.0004	-0.0007
5.0	0.17325	-0.0062	-0.0215	0.0089	0.00009	-0.0004
5.5	0.1600	-0.0032	-0.0184	0.0063	0.00004	-0.00028
6.0	0.1420	-0.0013	-0.0155	0.0046	0.00003	-0.00018
7.0	0.1027	0.0002	-0.0108	0.0026	0.00002	-0.00011
8.0	0.0720	0.00018	-0.0075	0.0015	0.00001	-0.00008
9.0	0.0511	0.00009	-0.0053	0.0009	0.00004	-0.00004
10.0	0.0372	0.00008	-0.0038	0.0006	0.00002	-0.000017
11.0	0.0280	0.00006	-0.0022	0.0004	-0.00002	-0.000015
12.0	0.0215	0.00004	-0.0016	0.0002	0.00002	-0.000009

Table IV: Symmetry-adapted components $\Delta\alpha_{44}^{(K)}(R)$ of the isotropic (K=0) and anisotropic (K=2) of the collision-induced polarizability of H₂-Ne pair

R/au	$\Delta\alpha_{44}^{(0)}(R)$	$\Delta\alpha_{44}^{(2)}(R)$
3.0	-0.0078	0.00954
3.5	-0.0055	$-5.75 \cdot 10^{-4}$
4.0	-0.0030	-0.00175
4.5	-0.0015	-0.00132
5.0	-0.00086	$-8.5 \cdot 10^{-4}$
5.5	-0.00053	$-6 \cdot 10^{-4}$
6.0	-0.022	$-3.7 \cdot 10^{-4}$
7.0	-0.00019	$-2.18 \cdot 10^{-4}$
8.0	-0.000097	$-1.64 \cdot 10^{-4}$
9.0	-0.000044	$-1.2 \cdot 10^{-4}$
10.0	-0.000018	$-7.2 \cdot 10^{-5}$
11.0	-0.000026	$-5.2 \cdot 10^{-5}$
12.0	-0.000005	$-2.6 \cdot 10^{-5}$
14.0	-0.000001	$5.46 \cdot 10^{-6}$