pi	nu 0	e	h bar	m sub e	a0	c	mp	D/C m		
3.1415927E+00	1.2566371E-06	1.6021892E-19	1.0545888E-34	9.1095345E-31	5.2917706E-11	2.9979246E+08	1.6726486E-27	2.9979246E+29		

	epsilon 0	eV/cm^-1			aH	k	md	q/e	u (bond moment)	u (bond moment) D	1.07
	8.85E-12	0.000123985			5.29465E-11	1.3806505E-23	3.3435860E-27	0.13744	6.02040E-31	0.18049	1.15
											0.15

			aD								
			3.70 to 3.72 Å Hurst and Henshaw	5.29321E-11							

a (m)	b (m)	c' (m)	2c' (m)	eccentricity	N	R He 1s1 HO final	E coul 1s1	E of He	Hybridization Factor	R He 1s1 HO final	D He 1s1 HO final
6.94953E-10	6.69795E-10	1.85297E-10	3.70593E-10	0.26663		0.51664	26.33505	24.587387	0.93364	2.73395E-11	5.46791E-11
13.13271	12.65729	3.50160	7.00320		6.0221415E+23						

0.93364
0.93364

	Ve (eV)	Vp (eV)	T (eV)	Vm (eV)	Et (eV)
	-3.96489	3.88560	0.15095	-0.07548	-0.00382

Evib He-He (eV)
0.00443

cm-1/eV	w (s-1)	EK (eV)
1.239810E-04	6.35696E+14	0.41843

kcal/mole/eV
4.336340E-02

kJ/mole/eV
0.010364101

	EDoppler (eV)	He-He Eocs (eV)	He-He ET (eV)	Cal. ECoulomb (eV)	Cal. Heat of vaporization	Exp. Heat of Vaporization (eV) T=4.2221 K	Exp. Heat of Vaporization (kJ/mole)	Expl. He roton energy (K)	Expl. He roton energy (J)	Expl. He roton energy (eV)
	0.00000	-0.00221	0.00160	0.00160	0.000799	0.000859	0.0829	8.7	1.20117E-22	0.00075

HeHe MO vibration	w(0) (s-1)
u He-He	3.2088630E-01
2.00000	1.6913044E-01
k(0)	1.5175587E-01 Evib(0) (eV)
6.73528E+12	0.00443

			angle of intersection with He	
			84.80689586	
			#NUM!	
		theta prime	#NUM!	
		theta He	#NUM!	
			#NUM!	
			#NUM!	
			#NUM!	
		theta H2 MO	#NUM!	
		dH2 MO	#NUM!	#NUM!
		d He HO	#NUM!	#NUM!

			Initial Parameters	
	Theory		r 1s1	E 1s1
He+	54.41776	3	0.51664	26.335049
He	24.587387			
total	79.005147			