

sp Hybridization

r (Å)	exp(-r/2ao)	2s	2pz	sp
0	1	-0.51844	0	-0.36659
1	0.3886098	-0.01104	0.190425	0.126841
2	0.1510176	0.069709	0.148002	0.153945
3	0.0586869	0.055847	0.086273	0.100494
4	0.0228063	0.032878	0.044702	0.054857
5	0.0088628	0.01712	0.021714	0.02746
6	0.0034442	0.008341	0.010126	0.013058
7	0.0013384	0.003897	0.004591	0.006002
8	0.0005201	0.001769	0.002039	0.002693
-1	0.3886098	-0.01104	-0.19043	-0.14246
-2	0.1510176	0.069709	-0.148	-0.05536
-3	0.0586869	0.055847	-0.08627	-0.02151
-4	0.0228063	0.032878	-0.0447	-0.00836
-5	0.0088628	0.01712	-0.02171	-0.00325

