

Table 1: Optimized geometries of selected molecules

molecule	nucleus	$X$ / bohr	$Y$ / bohr	$Z$ / bohr
<i>(R)</i> -1,3-difluoroallene	F	4.13803287	-0.74903179	0.33807399
	F	-4.13799648	-0.74909816	-0.33801341
	C	-0.00001231	0.61956651	-0.00000894
	C	2.35439015	0.71378522	-0.70236639
	C	-2.35442287	0.71388805	0.70230755
	H	-3.08833039	1.93265986	2.16293668
	H	3.08818066	1.93229645	-2.16327169
<i>(R)</i> -1,3-difluorocyclopropene	C	1.36145473	0.25948420	-0.93993398
	C	-1.22283553	0.28637833	-0.09025310
	C	-0.02712389	2.36771718	0.35656632
	H	1.97231991	0.33956428	-2.89020478
	F	3.13481910	-1.07489898	0.42936236
	H	0.11697583	4.25447692	1.07981123
	F	-3.31607582	-1.00911543	0.09215563
<i>(R)</i> -FOOH	F	-2.05962141	-0.45136819	0.00685795
	O	0.14463284	1.11722666	-0.03047940
	O	2.14971107	-0.51799867	0.12429629
	H	2.41280280	-1.00148896	-1.61822070
FCHO	F	2.00276294	-0.29572027	0.00000000
	O	-2.16266384	-0.40784471	0.00000000
	C	-0.28091357	0.77460428	0.00000000
	H	-0.08603829	2.82430253	0.00000000
cyclopropene	C	0.00000000	0.00000000	-1.66505007
	C	1.21978793	0.00000000	0.90471810
	C	-1.21978793	0.00000000	0.90471810
	H	0.00000000	1.72144844	-2.77938748
	H	0.00000000	-1.72144844	-2.77938748
	H	2.97418735	0.00000000	1.91979697
	H	-2.97418735	0.00000000	1.91979697
fluoroethene	F	2.00670618	0.33194867	0.00000000
	C	-2.38726733	0.41120496	0.00000000
	C	-0.23522599	-0.84813397	0.00000000
	H	-0.03685838	-2.87740062	0.00000000
	H	-2.42692867	2.44880241	0.00000000
	H	-4.13884042	-0.62649231	0.00000000