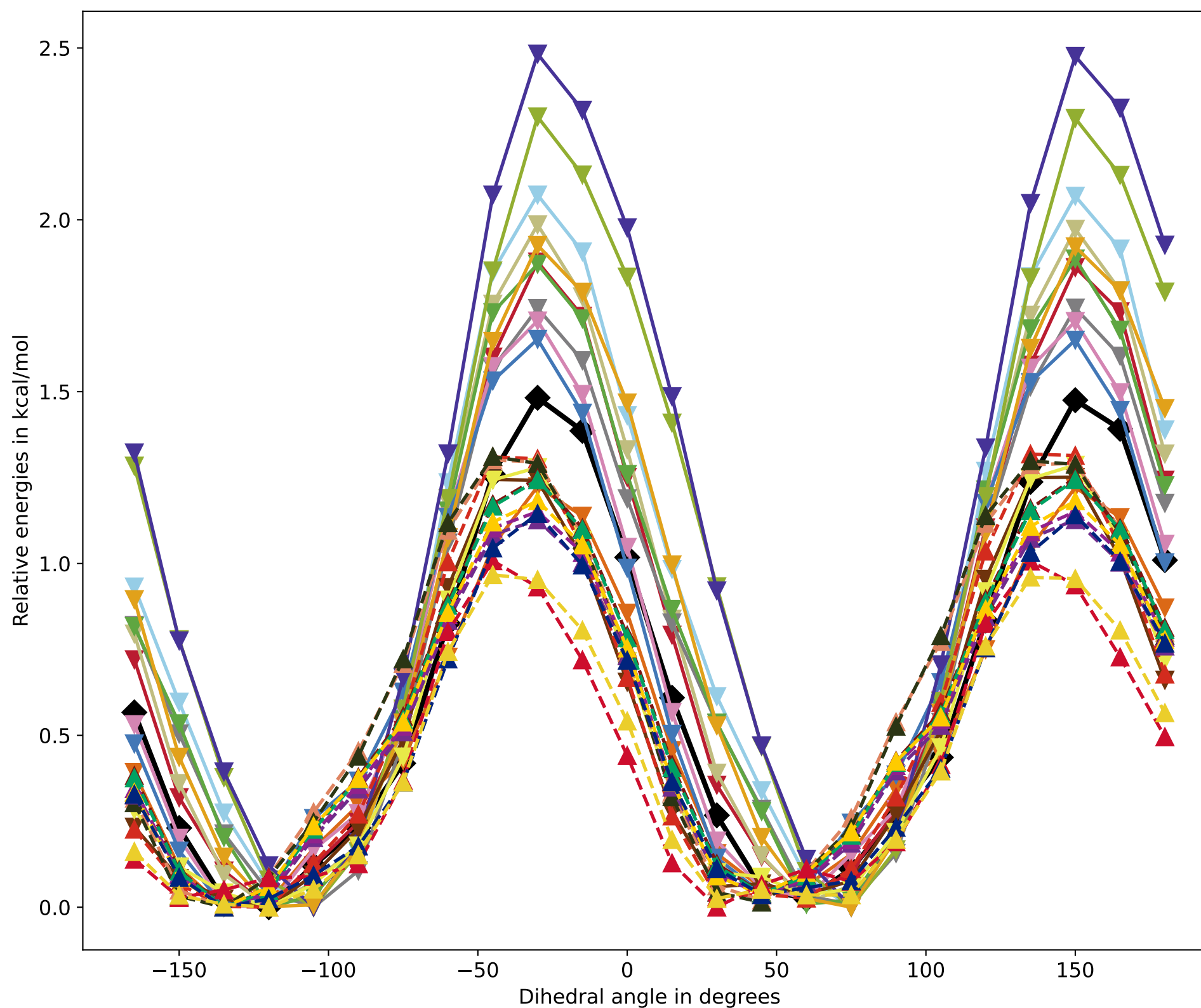
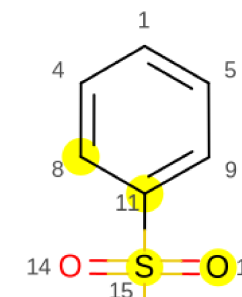
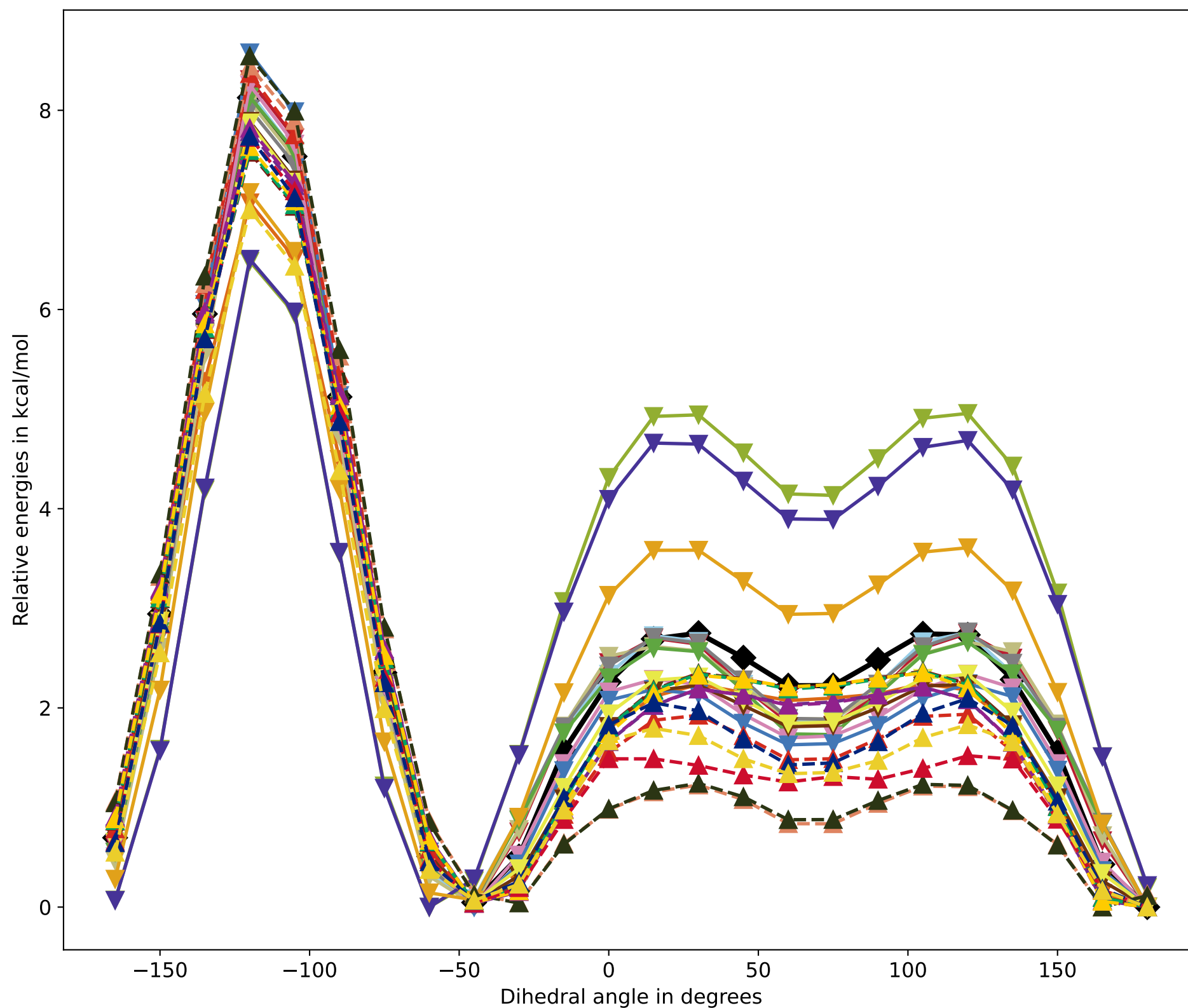
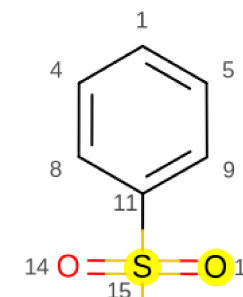


Charged molecule



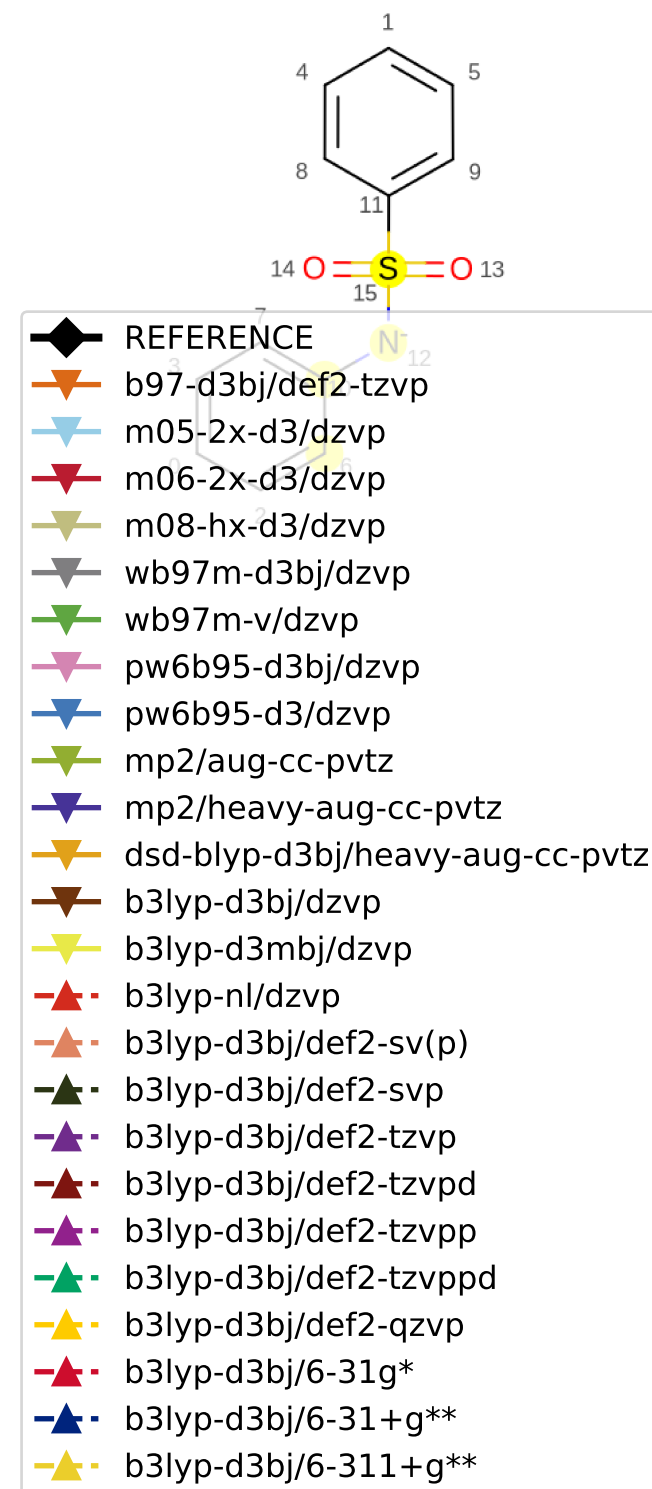
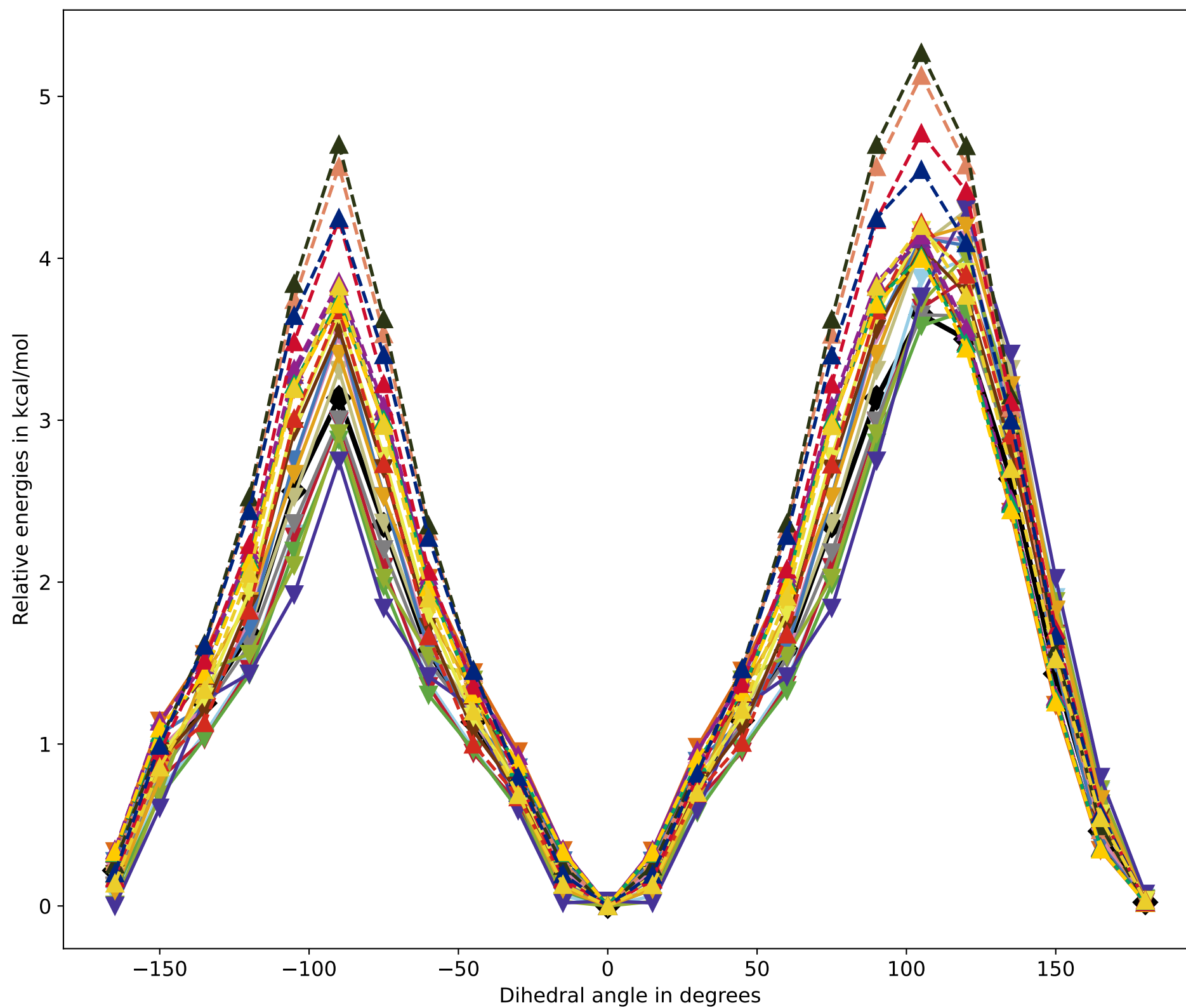
- REFERENCE
- b97-d3bj/def2-tzvp
- m05-2x-d3/dzvp
- m06-2x-d3/dzvp
- m08-hx-d3/dzvp
- wb97m-d3bj/dzvp
- wb97m-v/dzvp
- pw6b95-d3bj/dzvp
- pw6b95-d3/dzvp
- mp2/aug-cc-pvtz
- mp2/heavy-aug-cc-pvtz
- dsd-blyp-d3bj/heavy-aug-cc-pvtz
- b3lyp-d3bj/dzvp
- b3lyp-d3mbj/dzvp
- b3lyp-nl/dzvp
- b3lyp-d3bj/def2-sv(p)
- b3lyp-d3bj/def2-svp
- b3lyp-d3bj/def2-tzvp
- b3lyp-d3bj/def2-tzvppd
- b3lyp-d3bj/def2-tzvpp
- b3lyp-d3bj/def2-tzvppd
- b3lyp-d3bj/def2-qzv
- b3lyp-d3bj/6-31g*
- b3lyp-d3bj/6-31+g**
- b3lyp-d3bj/6-311+g**

Charged molecule

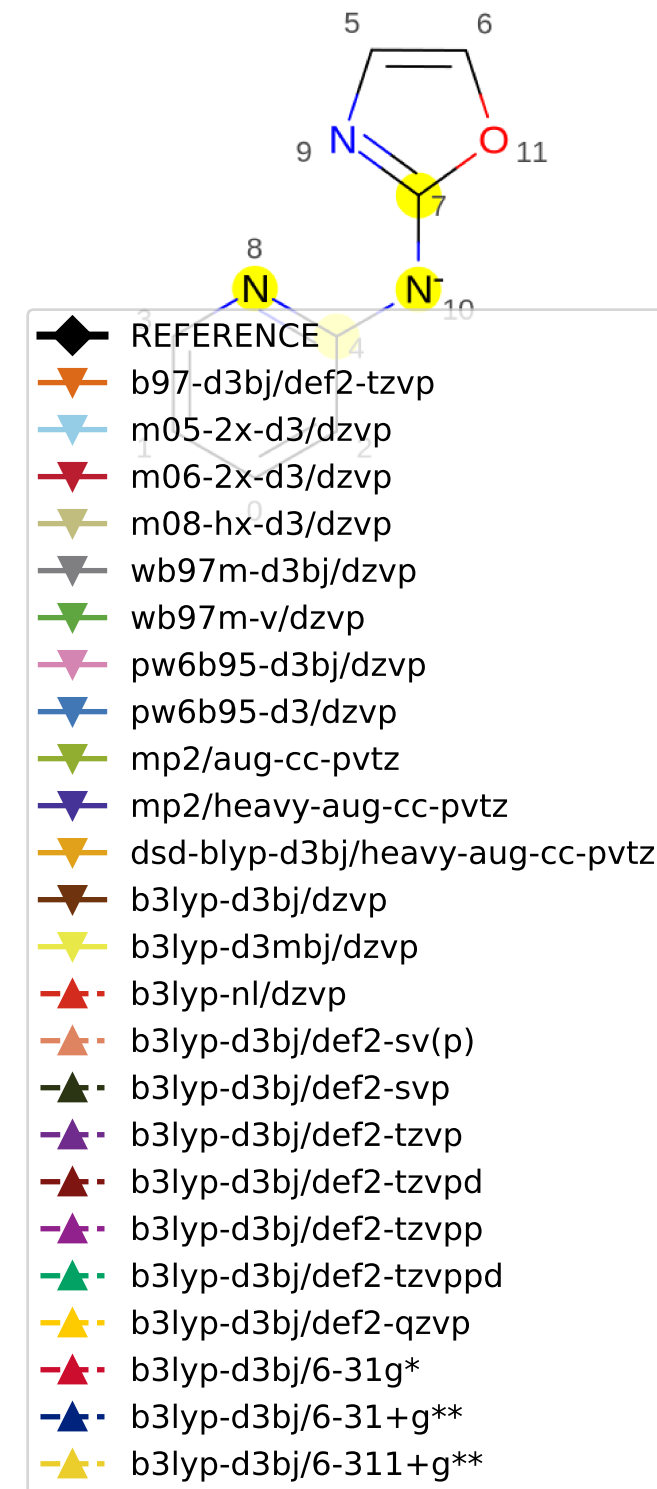
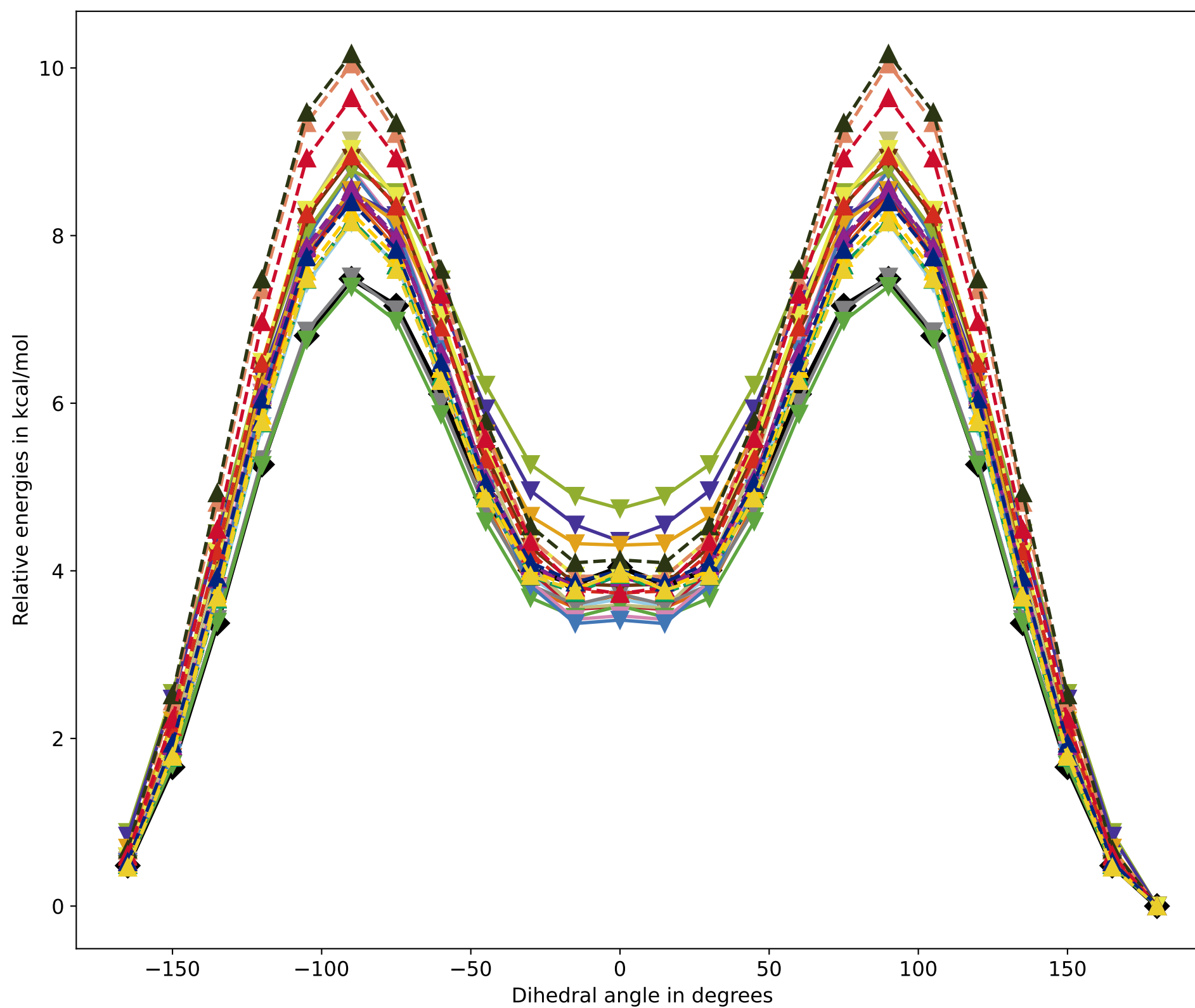


- ◆ REFERENCE
- ▴ b97-d3bj/def2-tzvp
- ▾ m05-2x-d3/dzvp
- ▾ m06-2x-d3/dzvp
- ▾ m08-hx-d3/dzvp
- ▾ wb97m-d3bj/dzvp
- ▾ wb97m-v/dzvp
- ▾ pw6b95-d3bj/dzvp
- ▾ pw6b95-d3/dzvp
- ▾ mp2/aug-cc-pvtz
- ▾ mp2/heavy-aug-cc-pvtz
- ▾ dsd-blyp-d3bj/heavy-aug-cc-pvtz
- ▾ b3lyp-d3bj/dzvp
- ▾ b3lyp-d3mbj/dzvp
- ▾ b3lyp-nl/dzvp
- ▾ b3lyp-d3bj/def2-sv(p)
- ▾ b3lyp-d3bj/def2-svp
- ▾ b3lyp-d3bj/def2-tzvp
- ▾ b3lyp-d3bj/def2-tzvppd
- ▾ b3lyp-d3bj/def2-tzvppd
- ▾ b3lyp-d3bj/def2-qzvppd
- ▾ b3lyp-d3bj/6-31g*
- ▾ b3lyp-d3bj/6-31+g**
- ▾ b3lyp-d3bj/6-311+g**

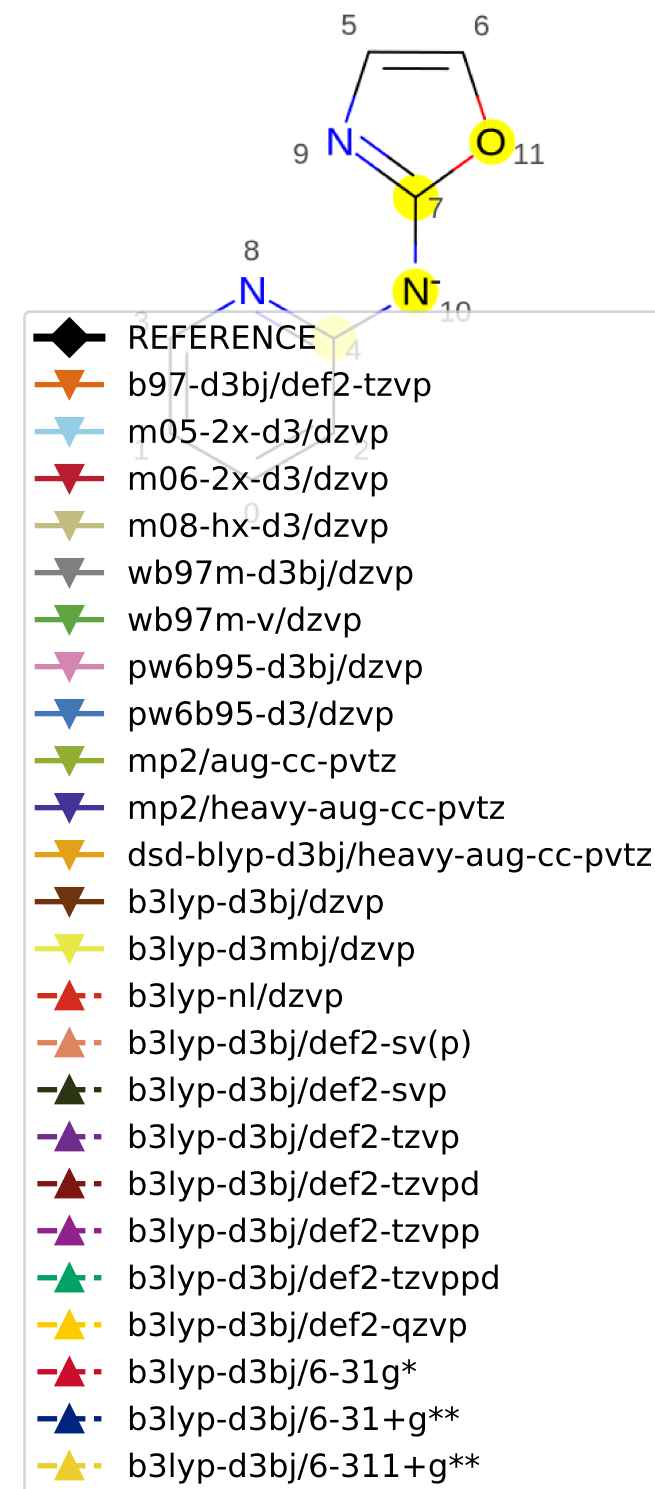
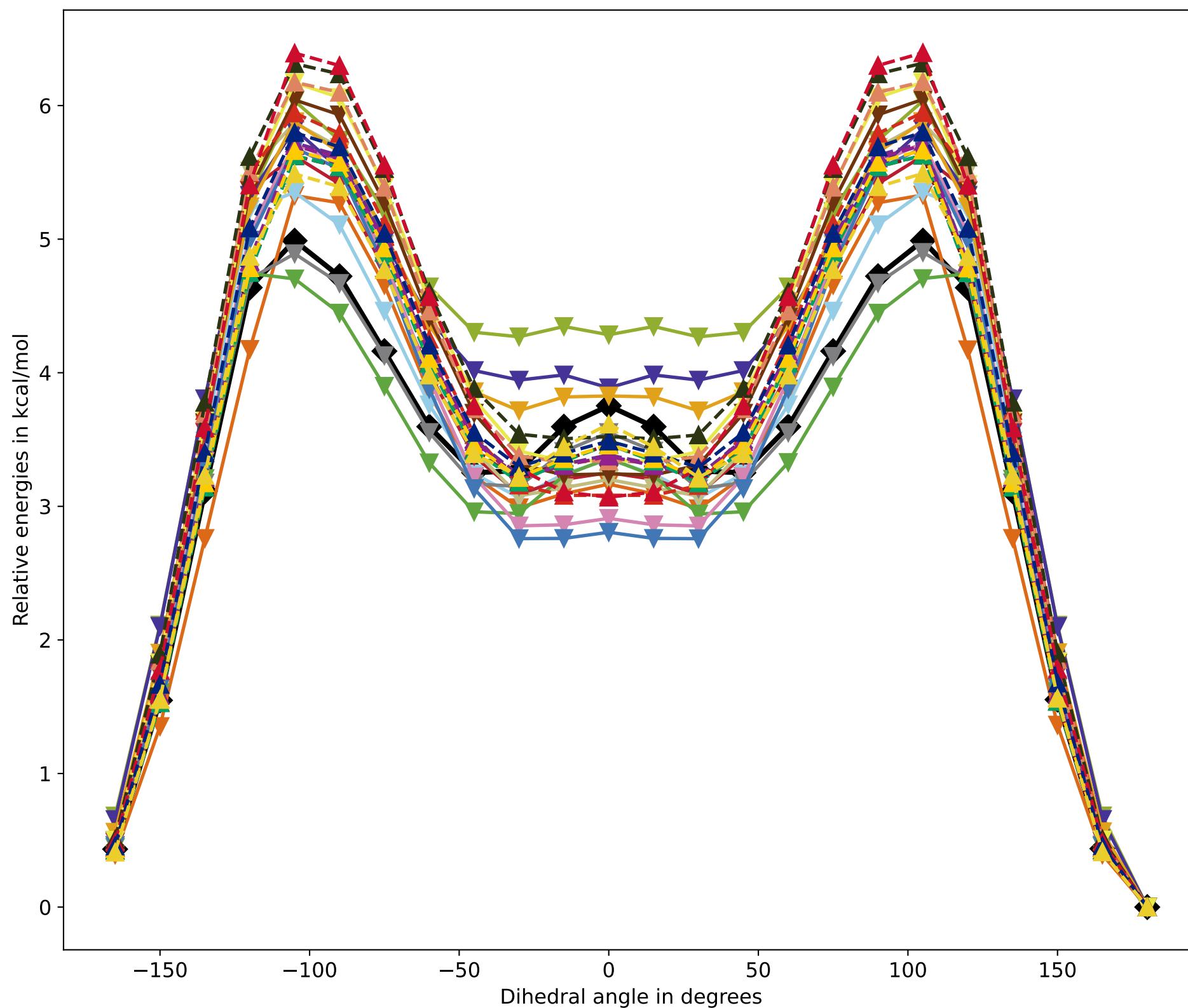
Charged molecule



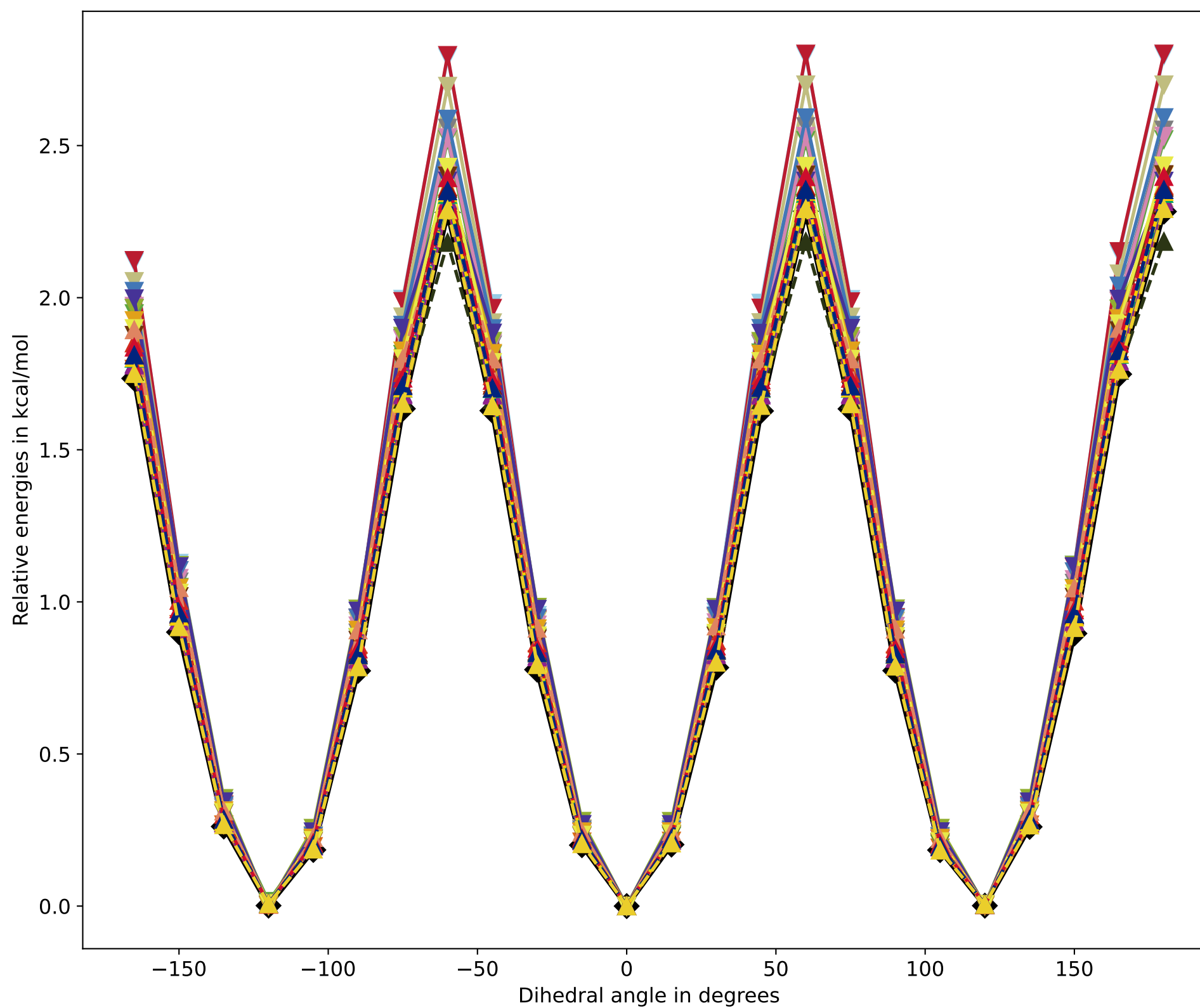
Charged molecule



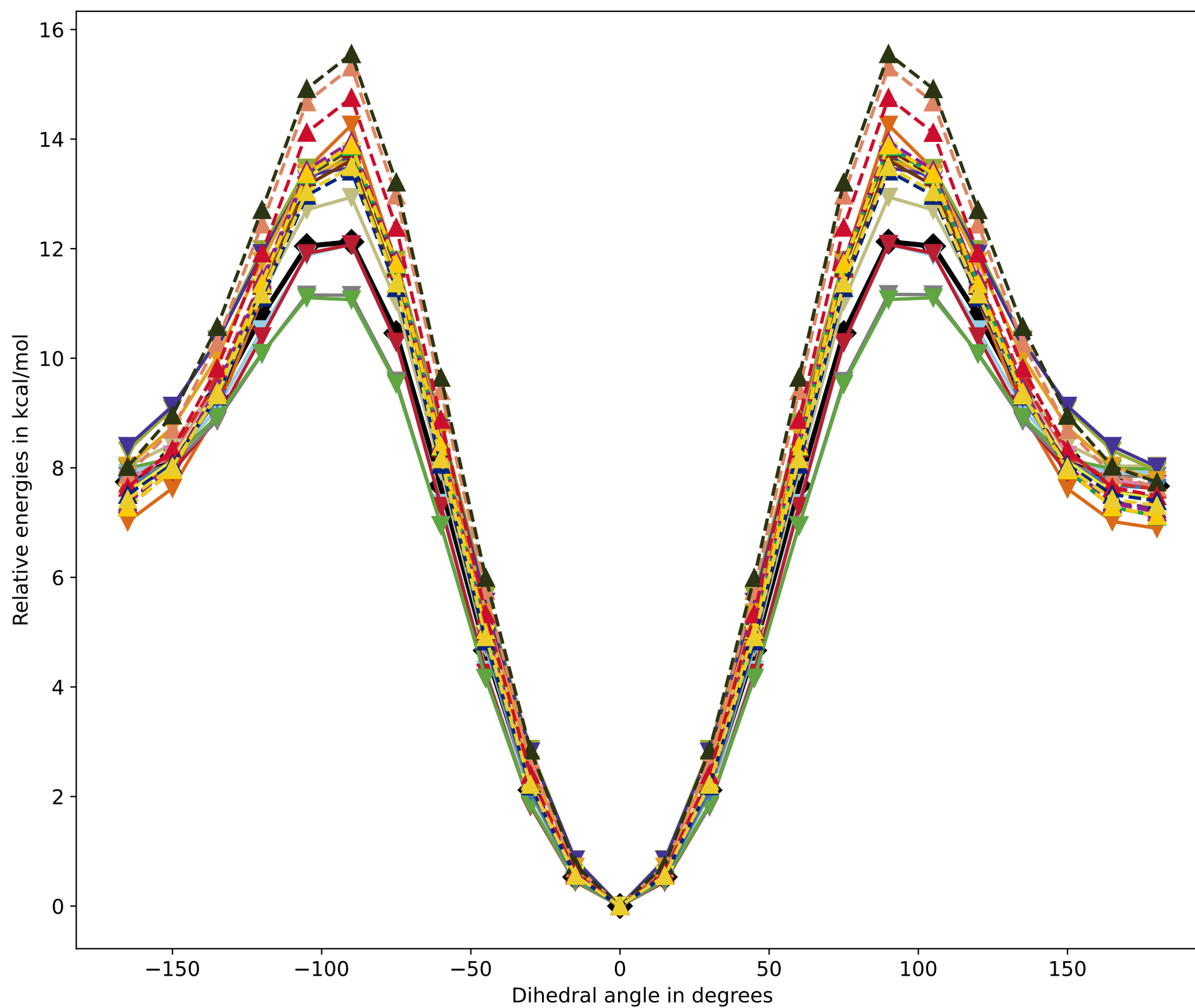
Charged molecule



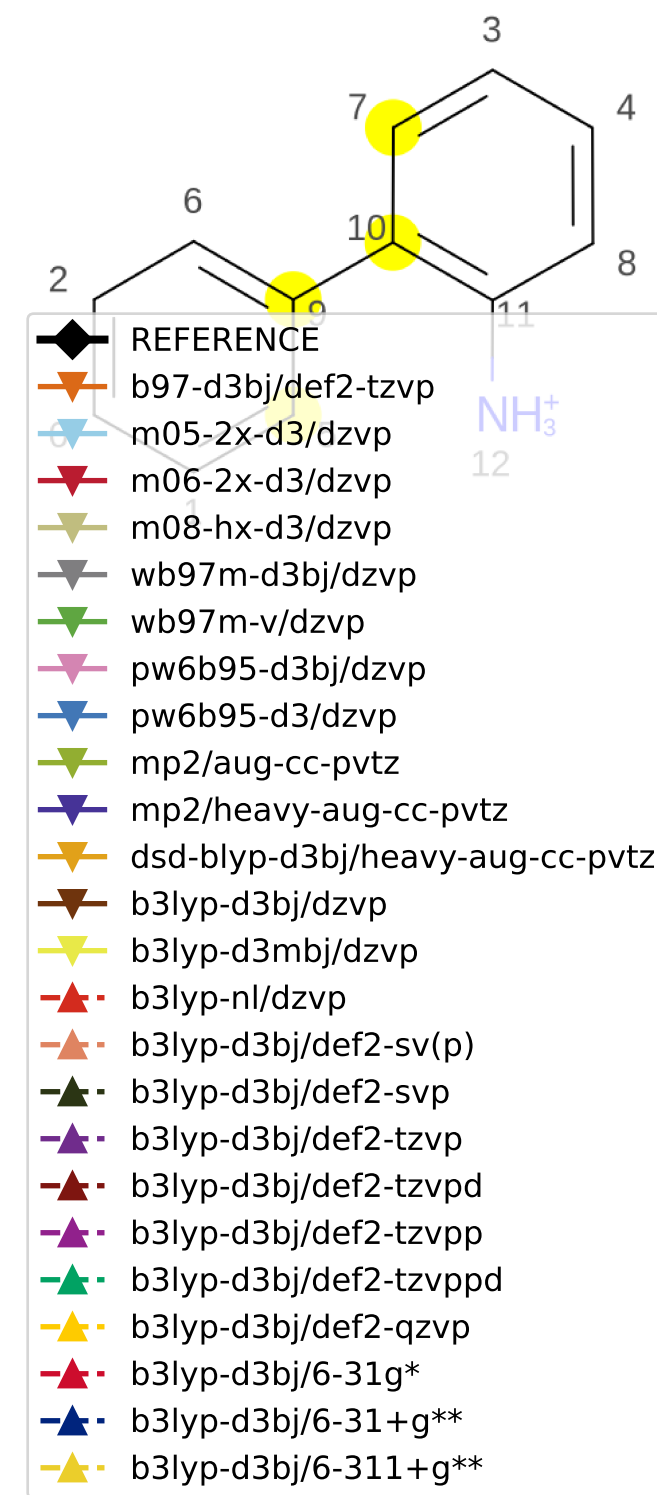
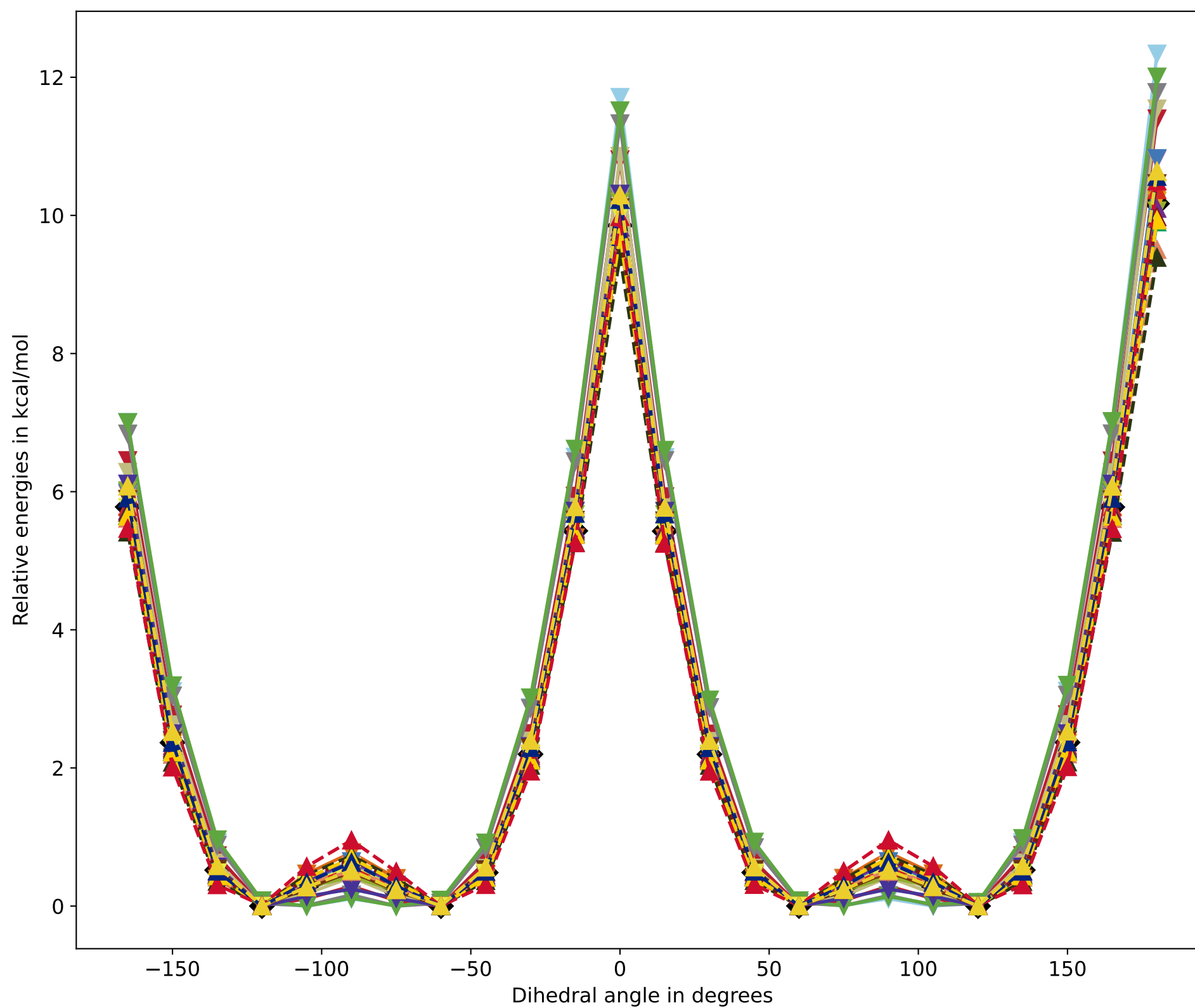
Charged molecule



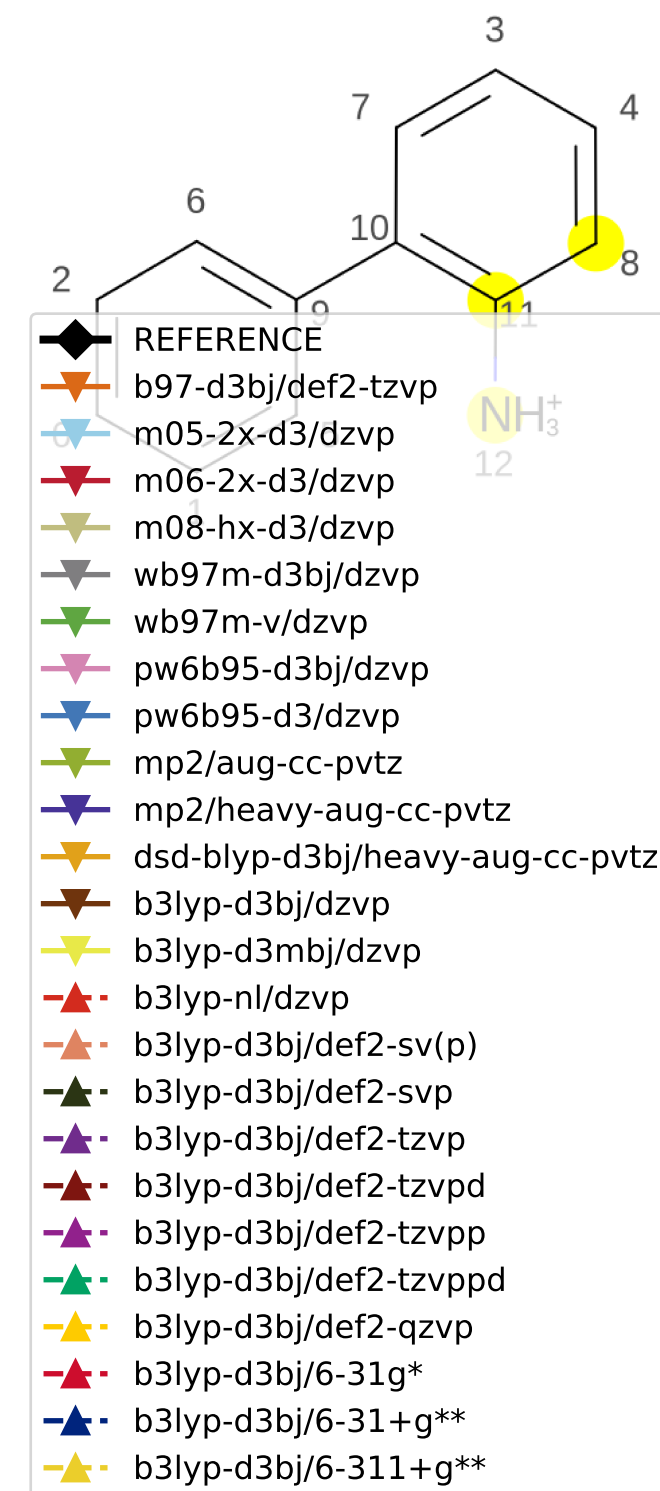
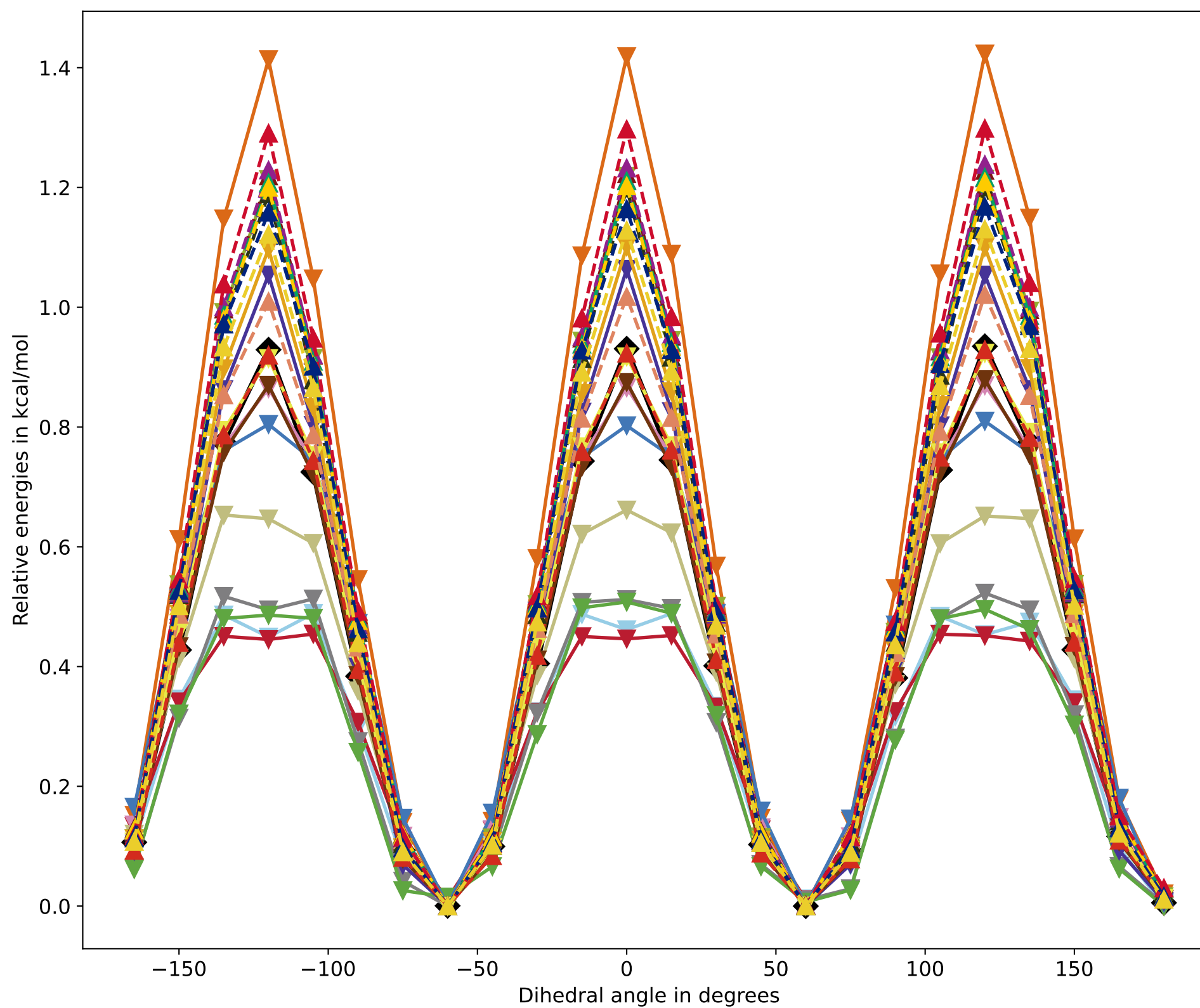
Charged molecule



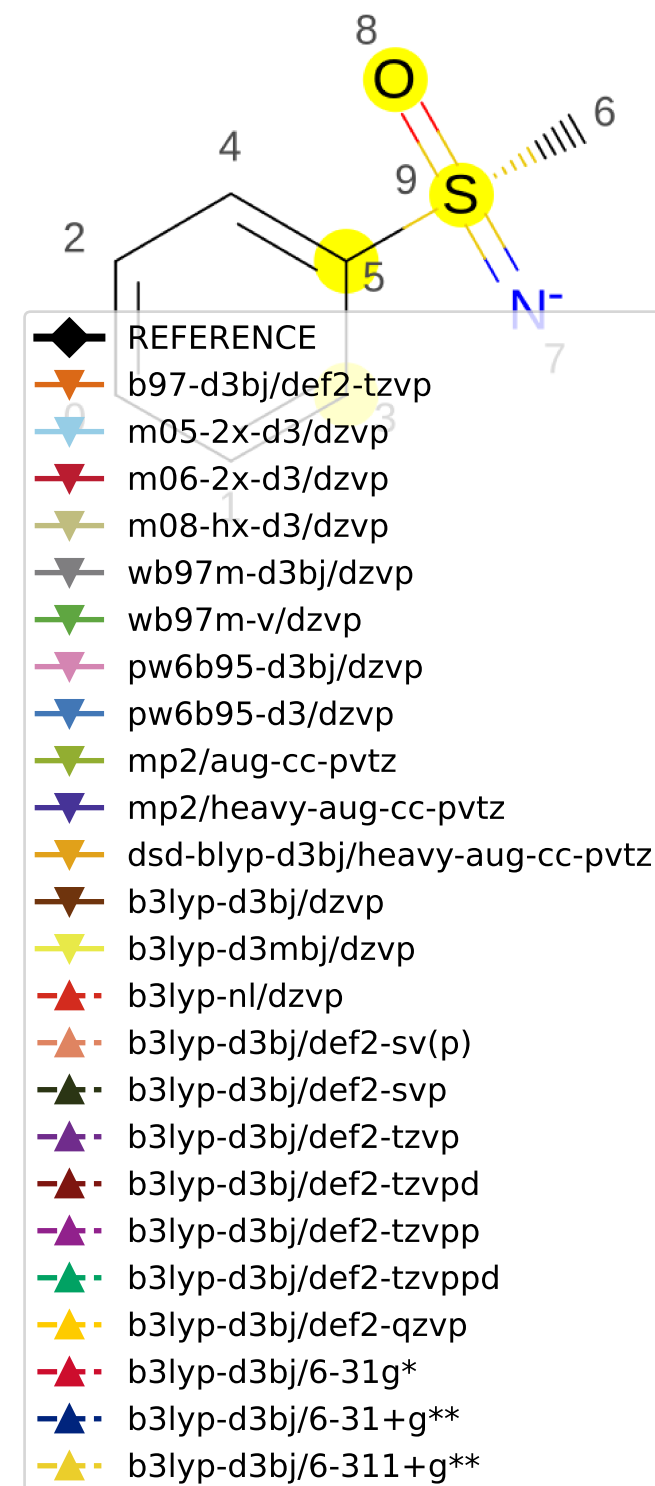
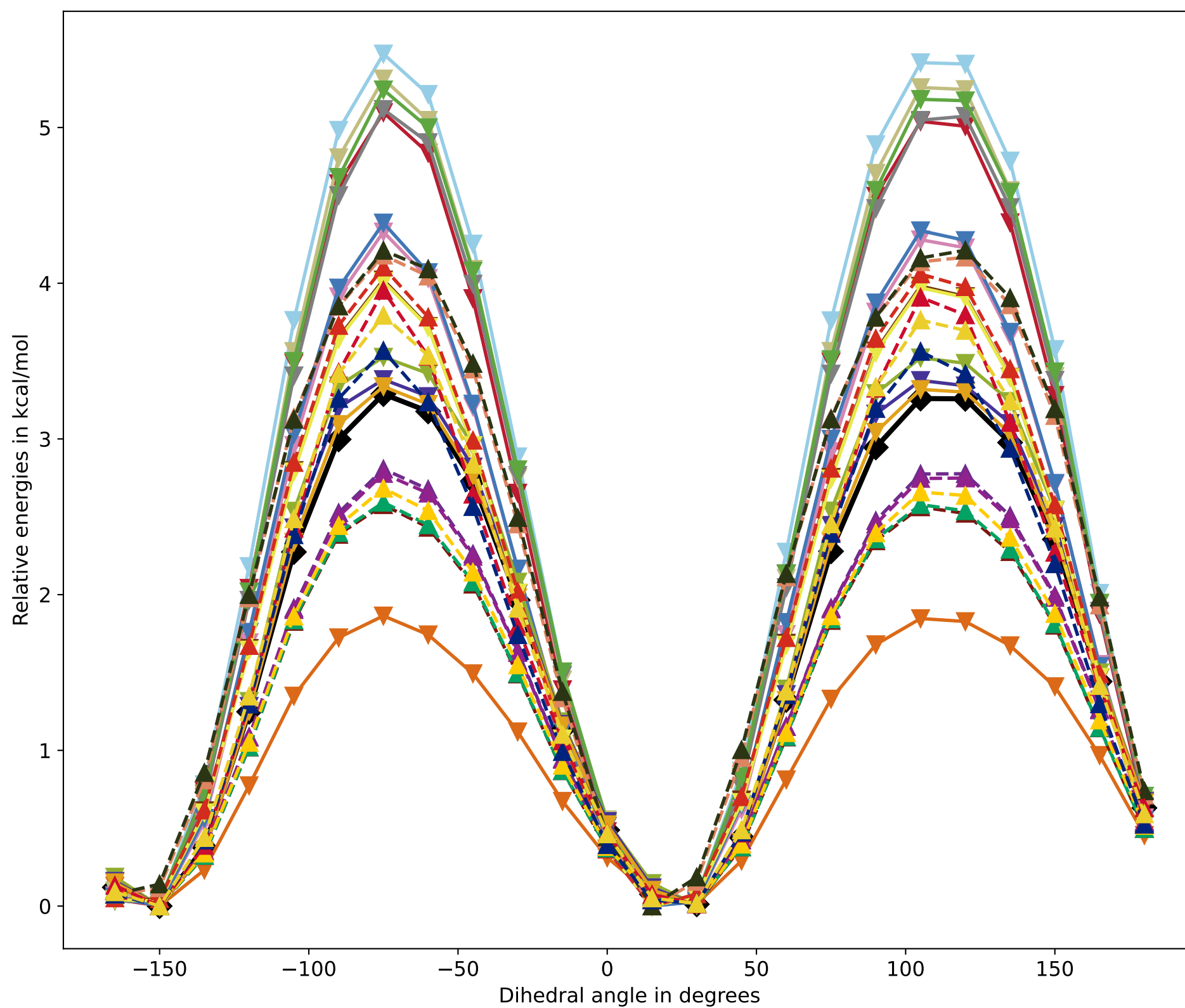
Charged molecule



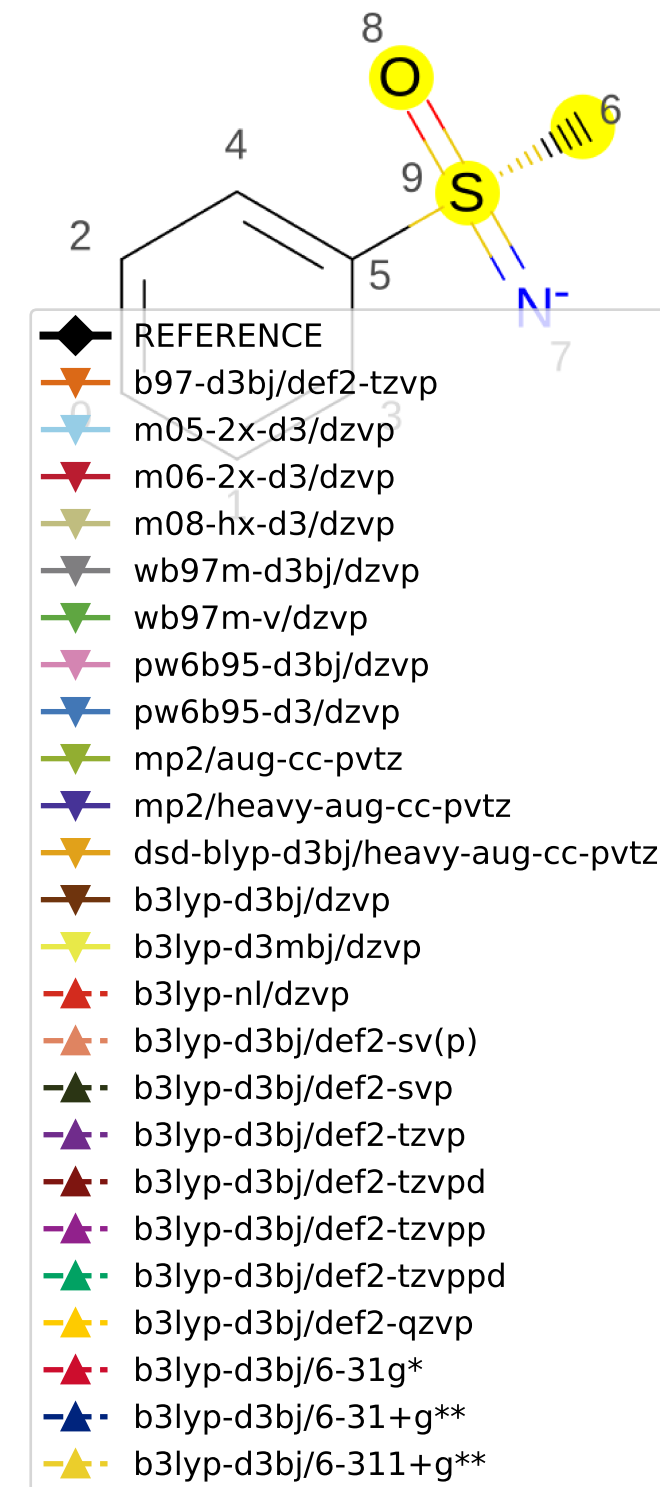
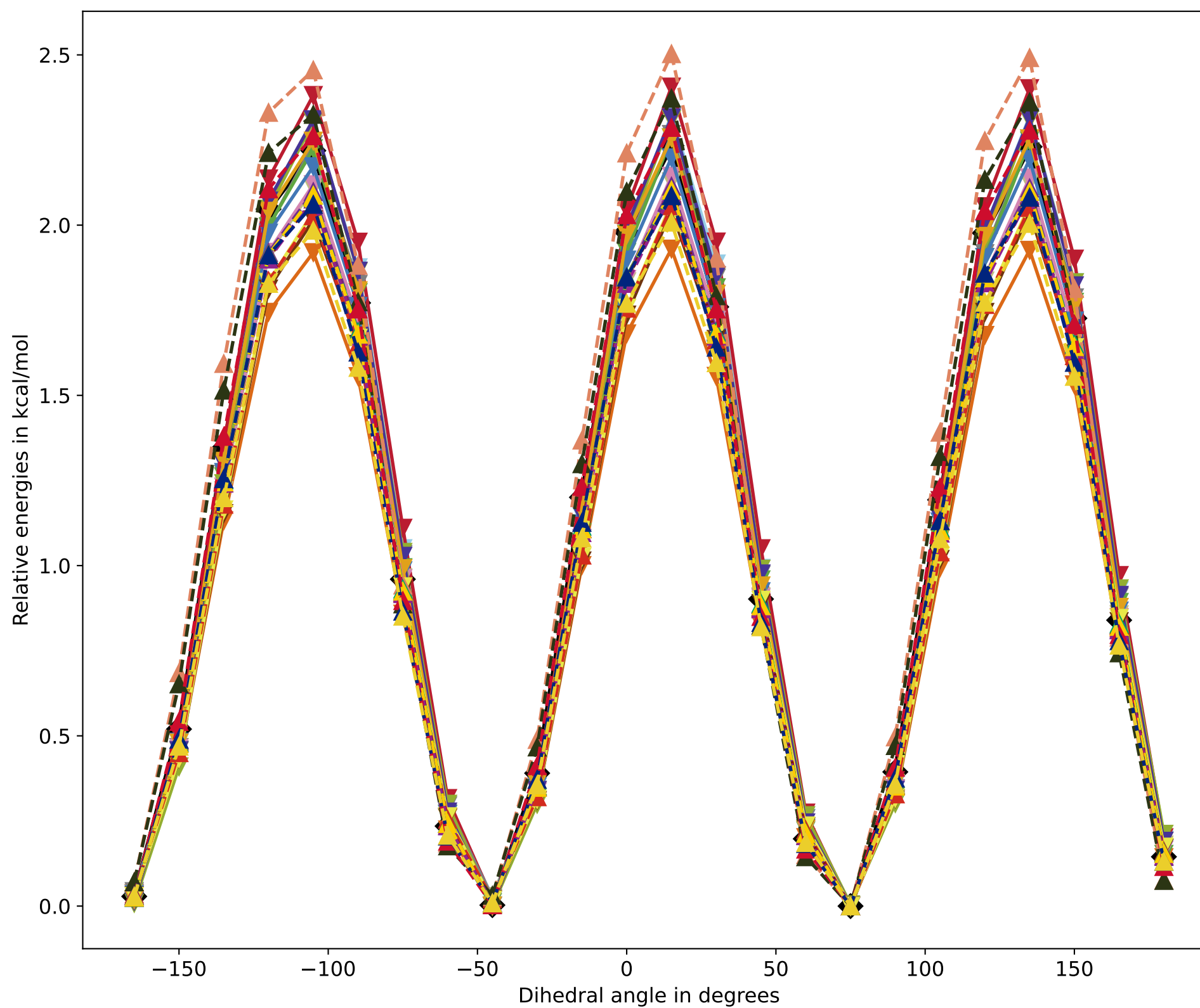
Charged molecule



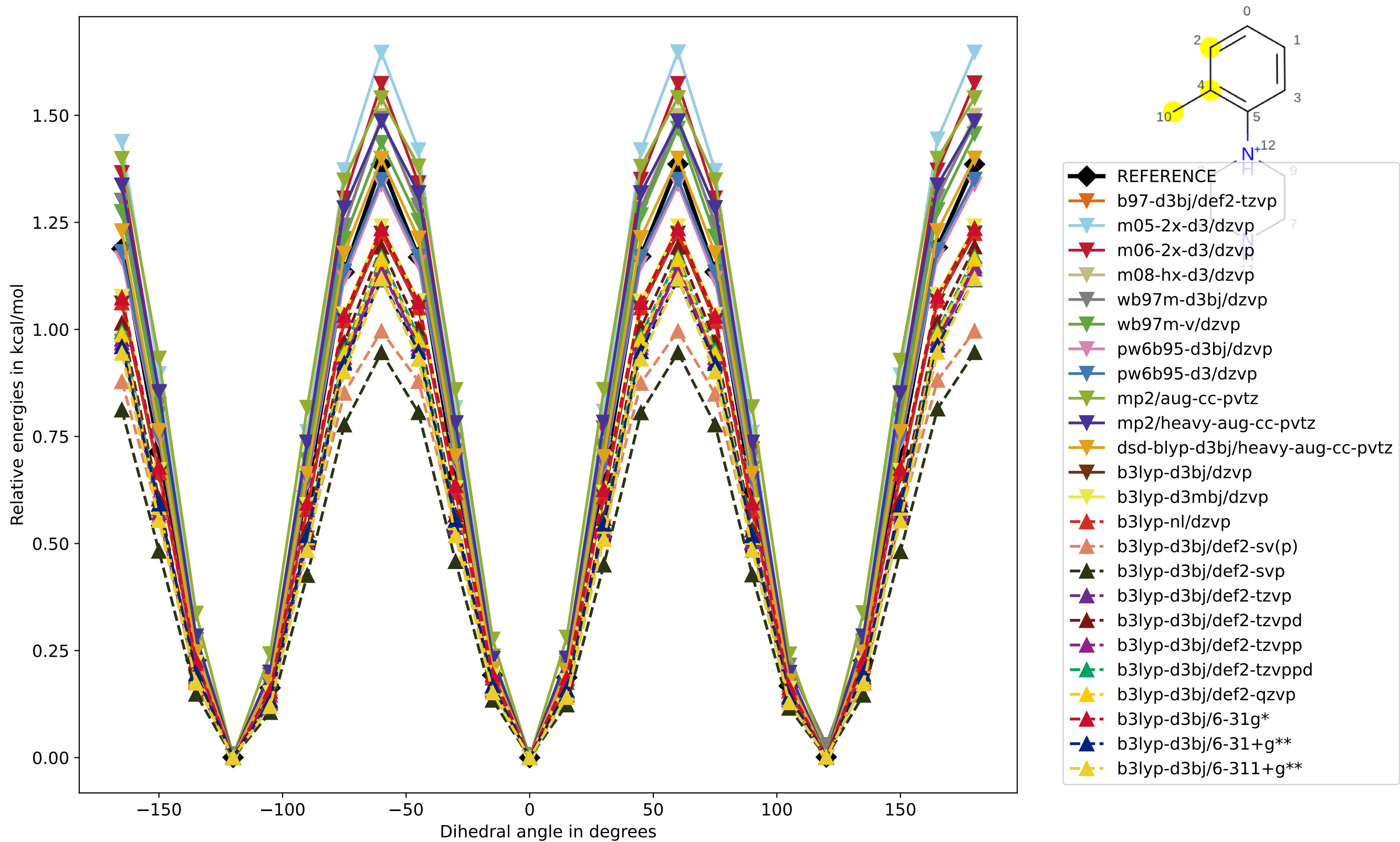
Charged molecule



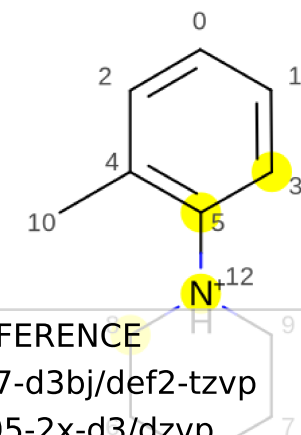
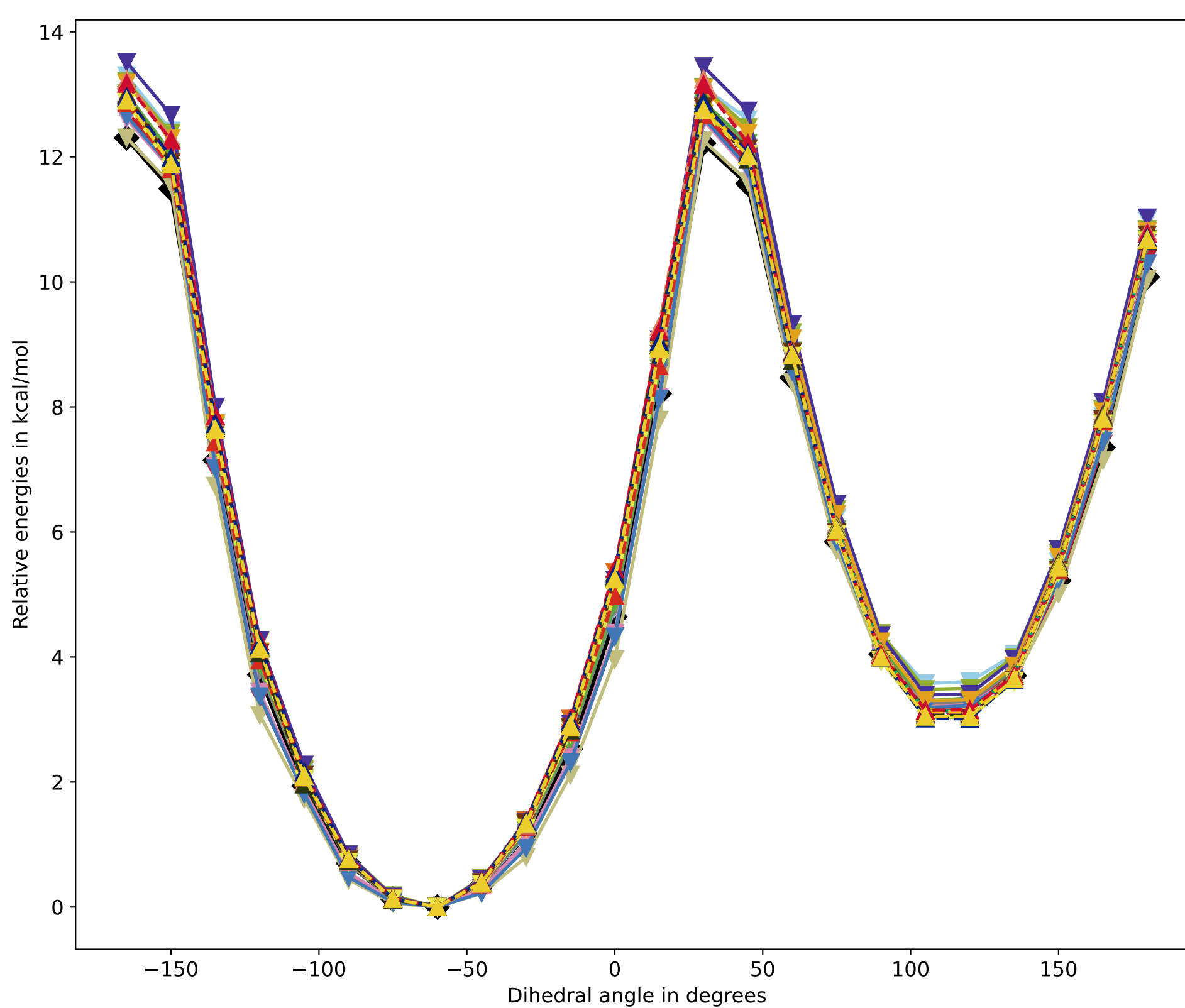
Charged molecule



Charged molecule

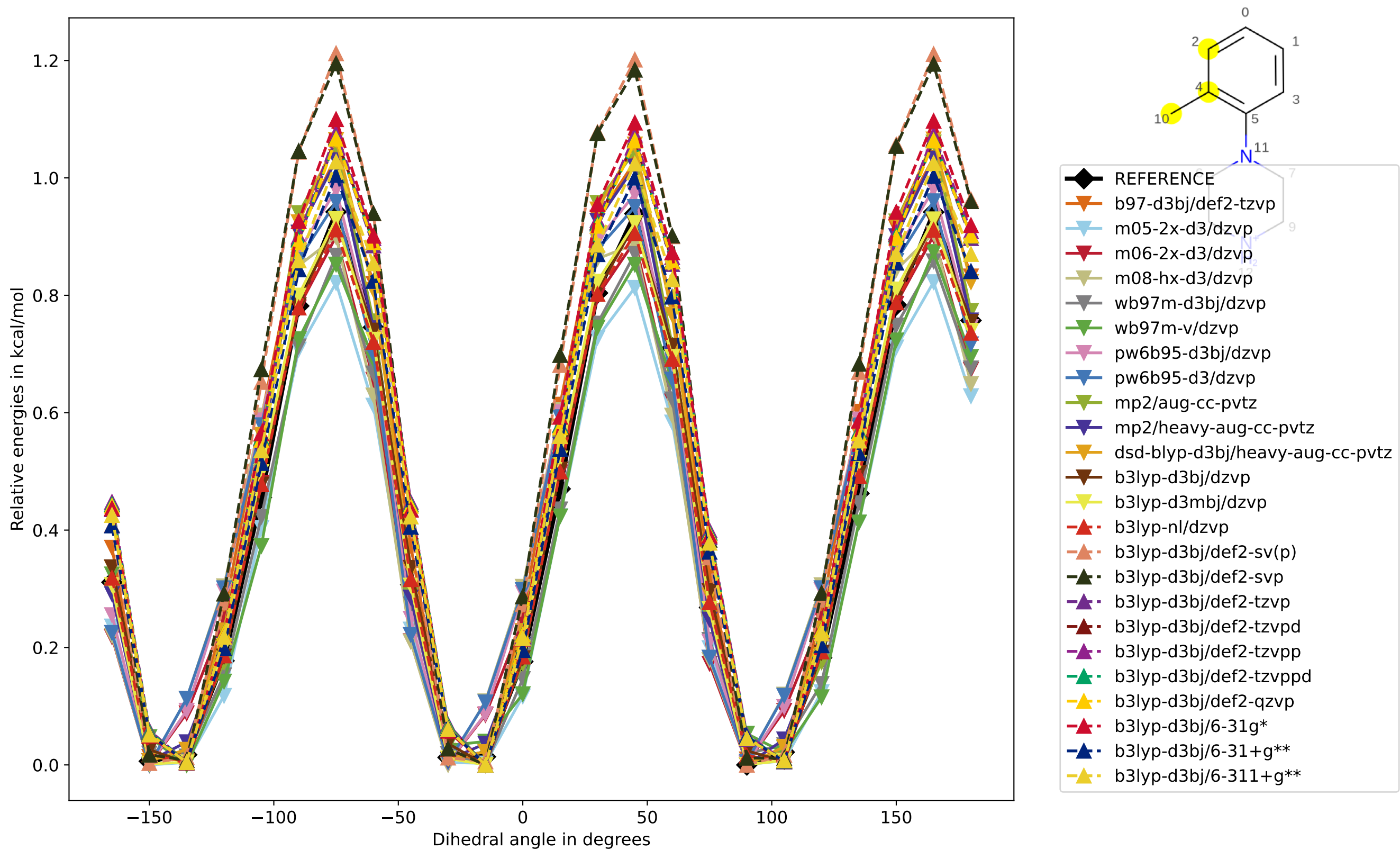


Charged molecule

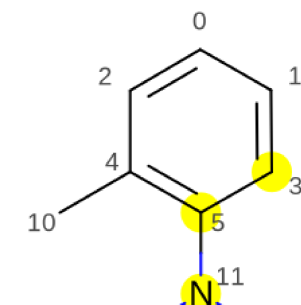
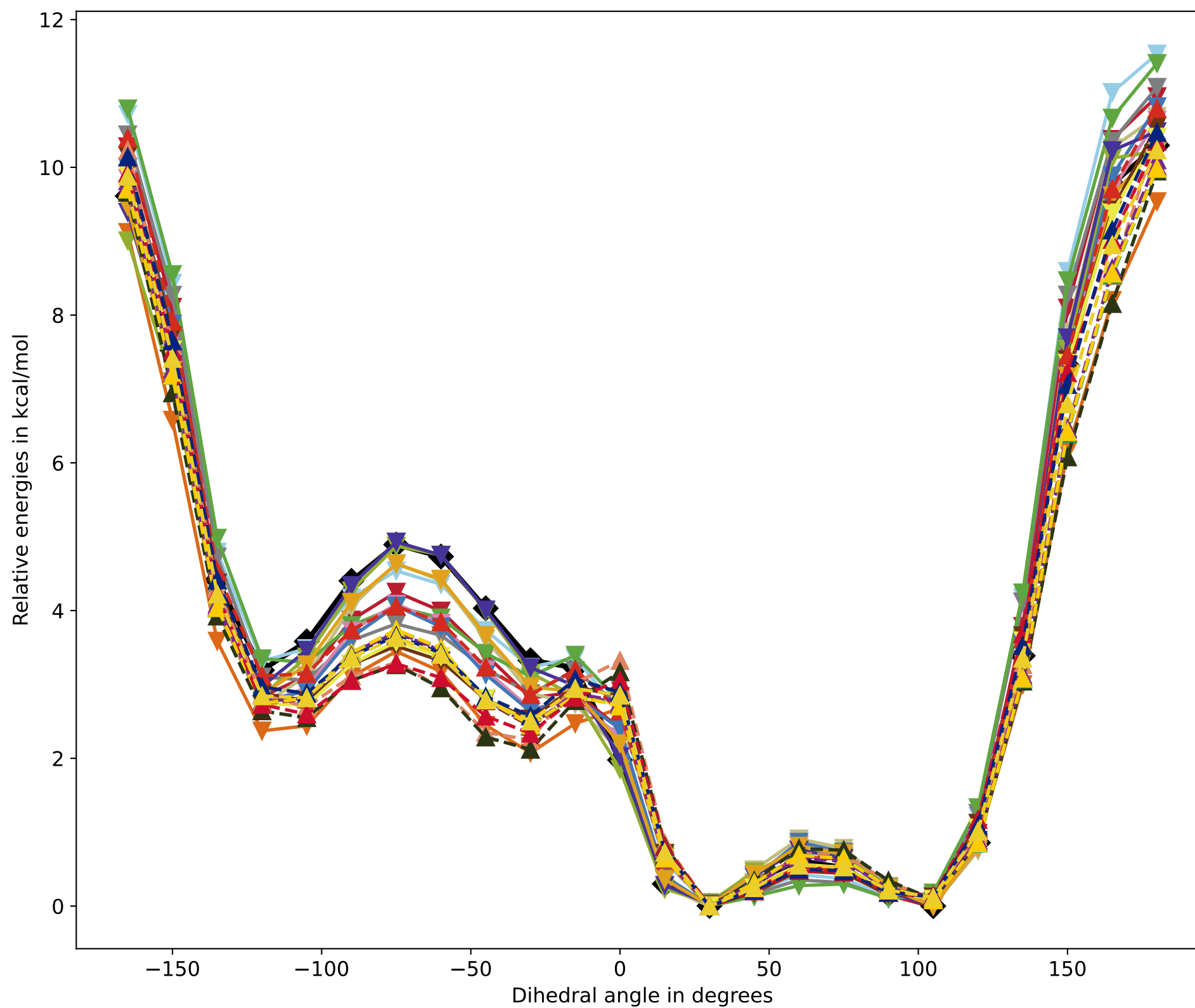


- REFERENCE
- b97-d3bj/def2-tzvp
- m05-2x-d3/dzvp
- m06-2x-d3/dzvp
- m08-hx-d3/dzvp
- wb97m-d3bj/dzvp
- wb97m-v/dzvp
- pw6b95-d3bj/dzvp
- pw6b95-d3/dzvp
- mp2/aug-cc-pvtz
- mp2/heavy-aug-cc-pvtz
- dsd-blyp-d3bj/heavy-aug-cc-pvtz
- b3lyp-d3bj/dzvp
- b3lyp-d3mbj/dzvp
- b3lyp-nl/dzvp
- b3lyp-d3bj/def2-sv(p)
- b3lyp-d3bj/def2-svp
- b3lyp-d3bj/def2-tzvp
- b3lyp-d3bj/def2-tzvppd
- b3lyp-d3bj/def2-tzvppp
- b3lyp-d3bj/def2-tzvppd
- b3lyp-d3bj/6-31g*
- b3lyp-d3bj/6-31+g**
- b3lyp-d3bj/6-311+g**

Charged molecule

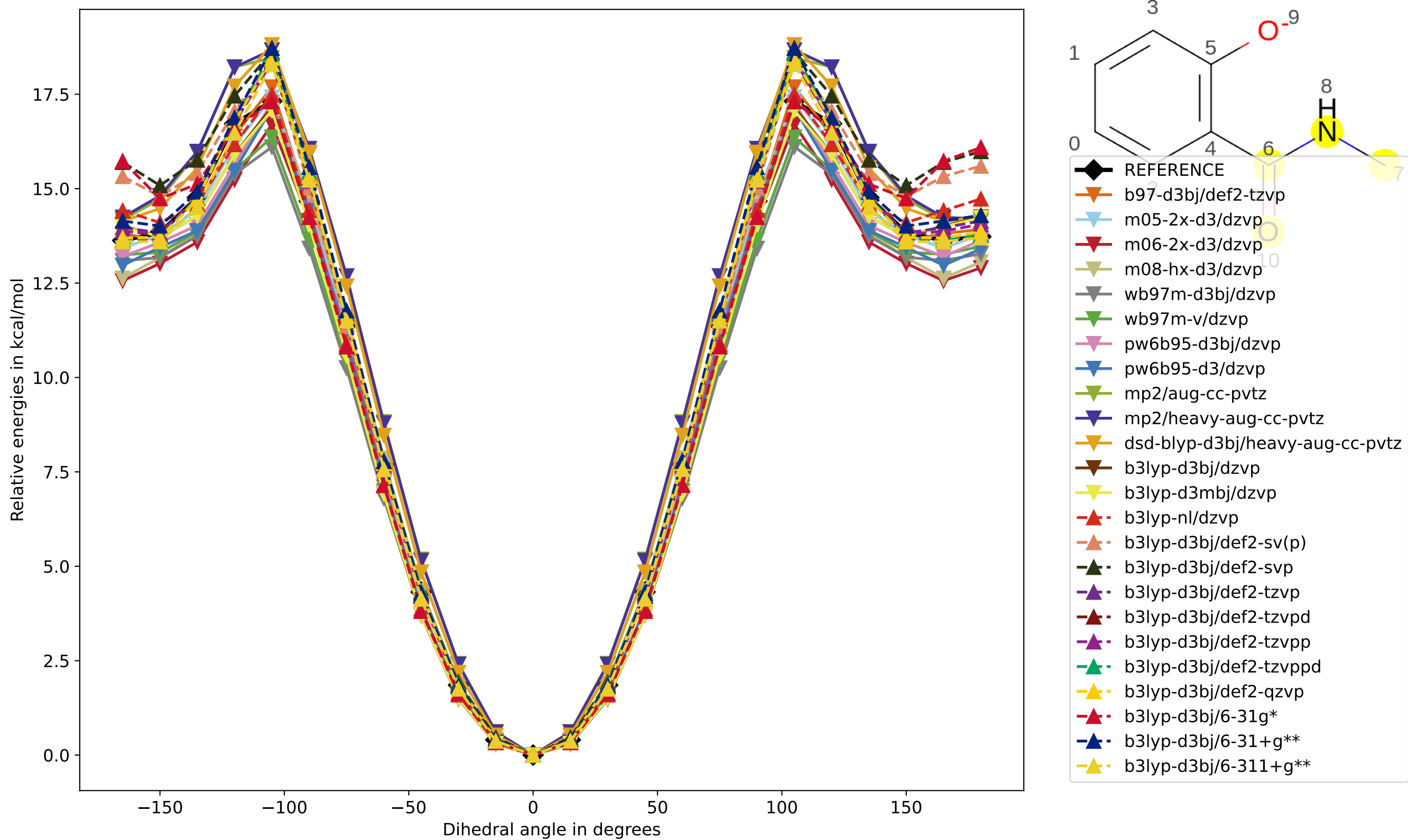


Charged molecule

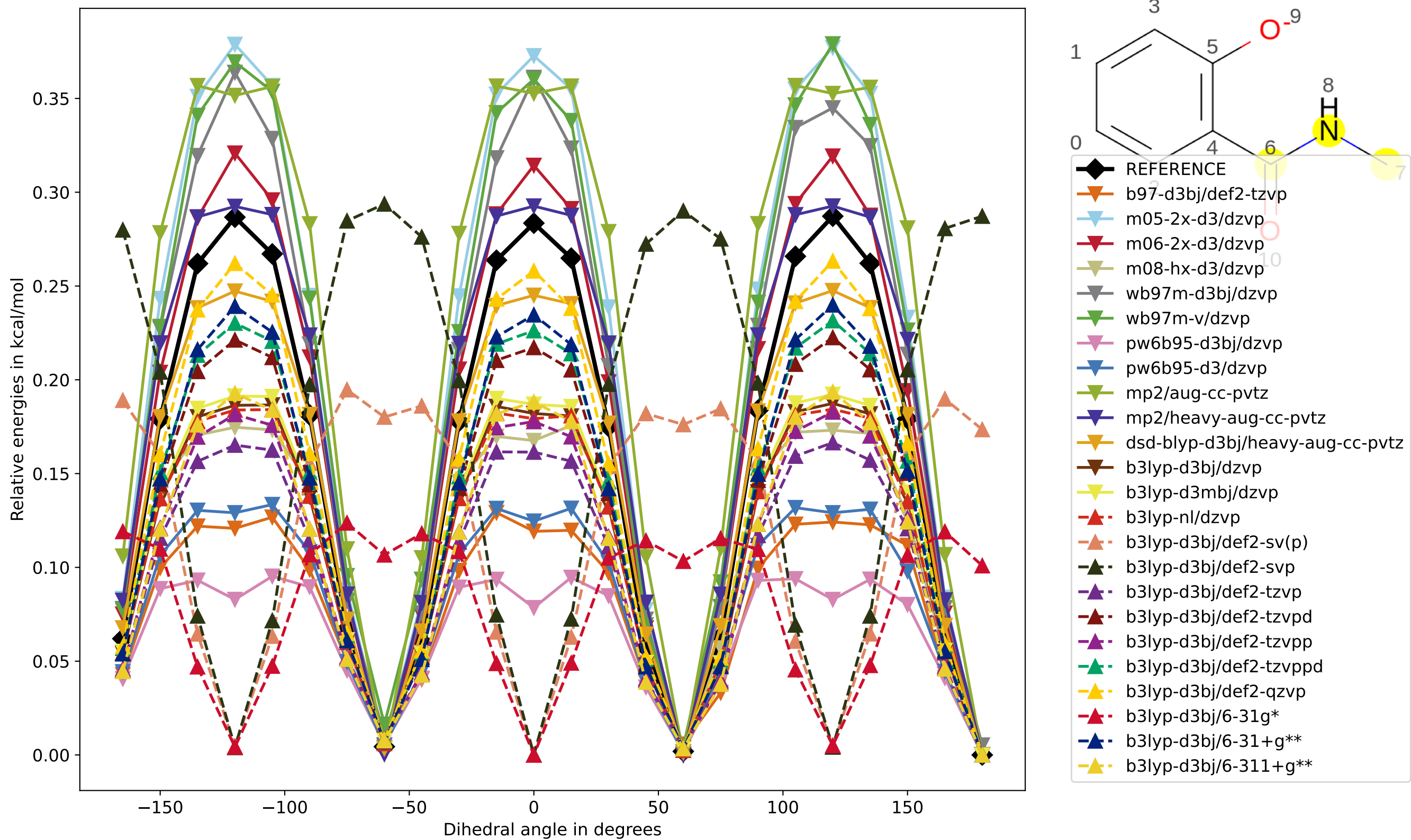


- REFERENCE
- b97-d3bj/def2-tzvp
- m05-2x-d3/dzvp
- m06-2x-d3/dzvp
- m08-hx-d3/dzvp
- wb97m-d3bj/dzvp
- wb97m-v/dzvp
- pw6b95-d3bj/dzvp
- pw6b95-d3/dzvp
- mp2/aug-cc-pvtz
- mp2/heavy-aug-cc-pvtz
- dsd-blyp-d3bj/heavy-aug-cc-pvtz
- b3lyp-d3bj/dzvp
- b3lyp-d3mbj/dzvp
- b3lyp-nl/dzvp
- b3lyp-d3bj/def2-sv(p)
- b3lyp-d3bj/def2-svp
- b3lyp-d3bj/def2-tzvp
- b3lyp-d3bj/def2-tzvppd
- b3lyp-d3bj/def2-tzvppp
- b3lyp-d3bj/def2-tzvppd
- b3lyp-d3bj/def2-qzvp
- b3lyp-d3bj/6-31g*
- b3lyp-d3bj/6-31+g**
- b3lyp-d3bj/6-311+g**

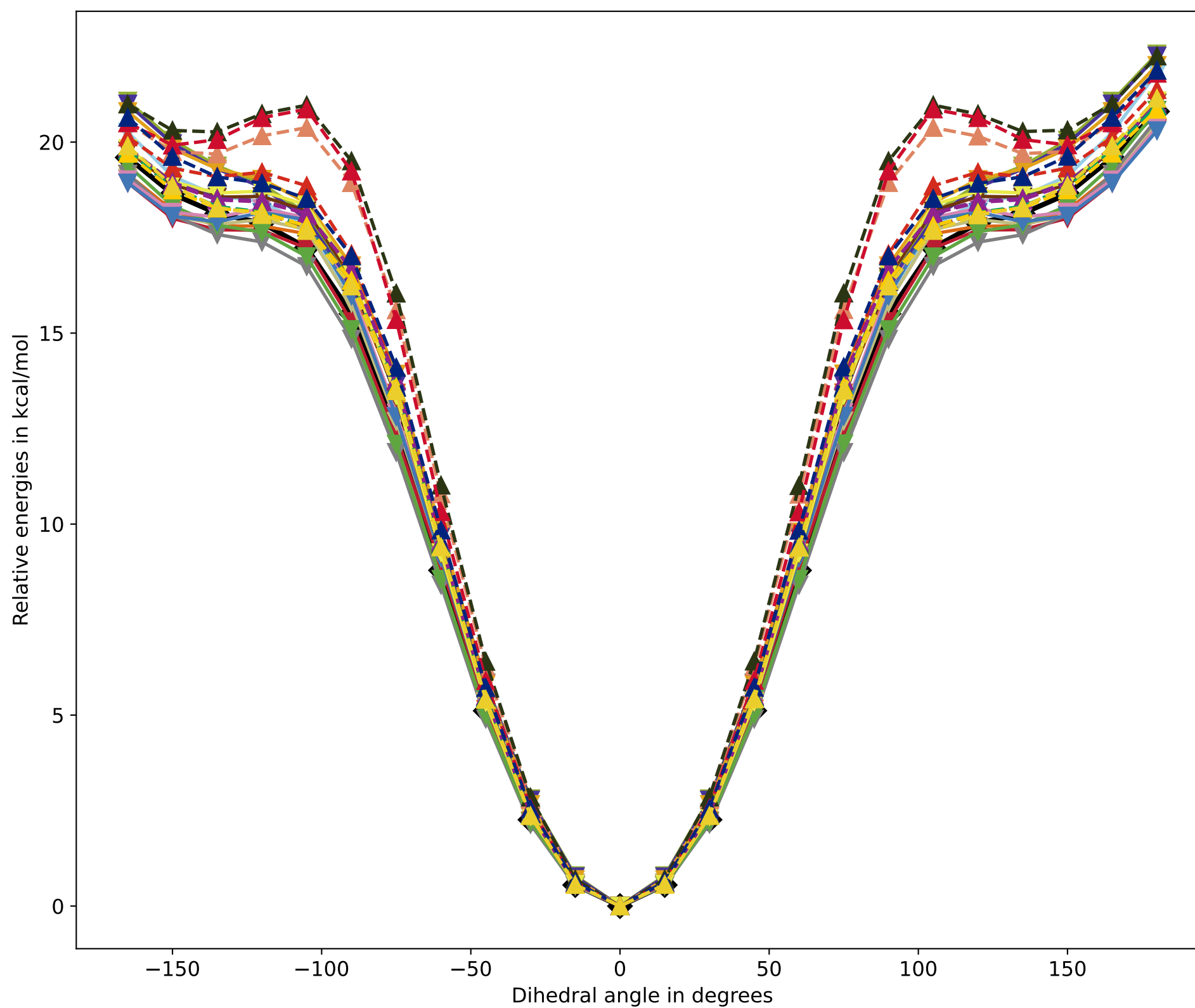
Charged molecule



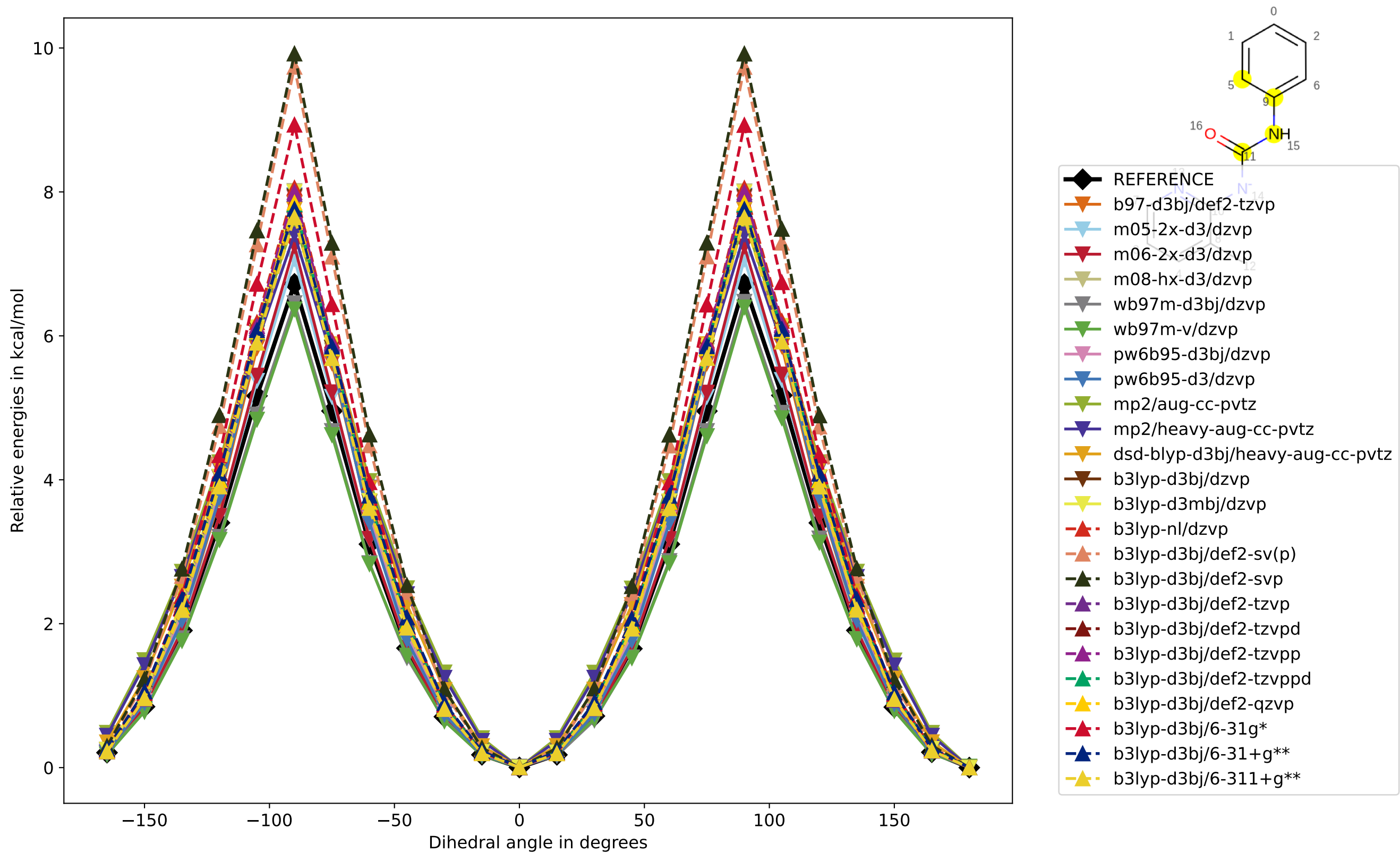
Charged molecule



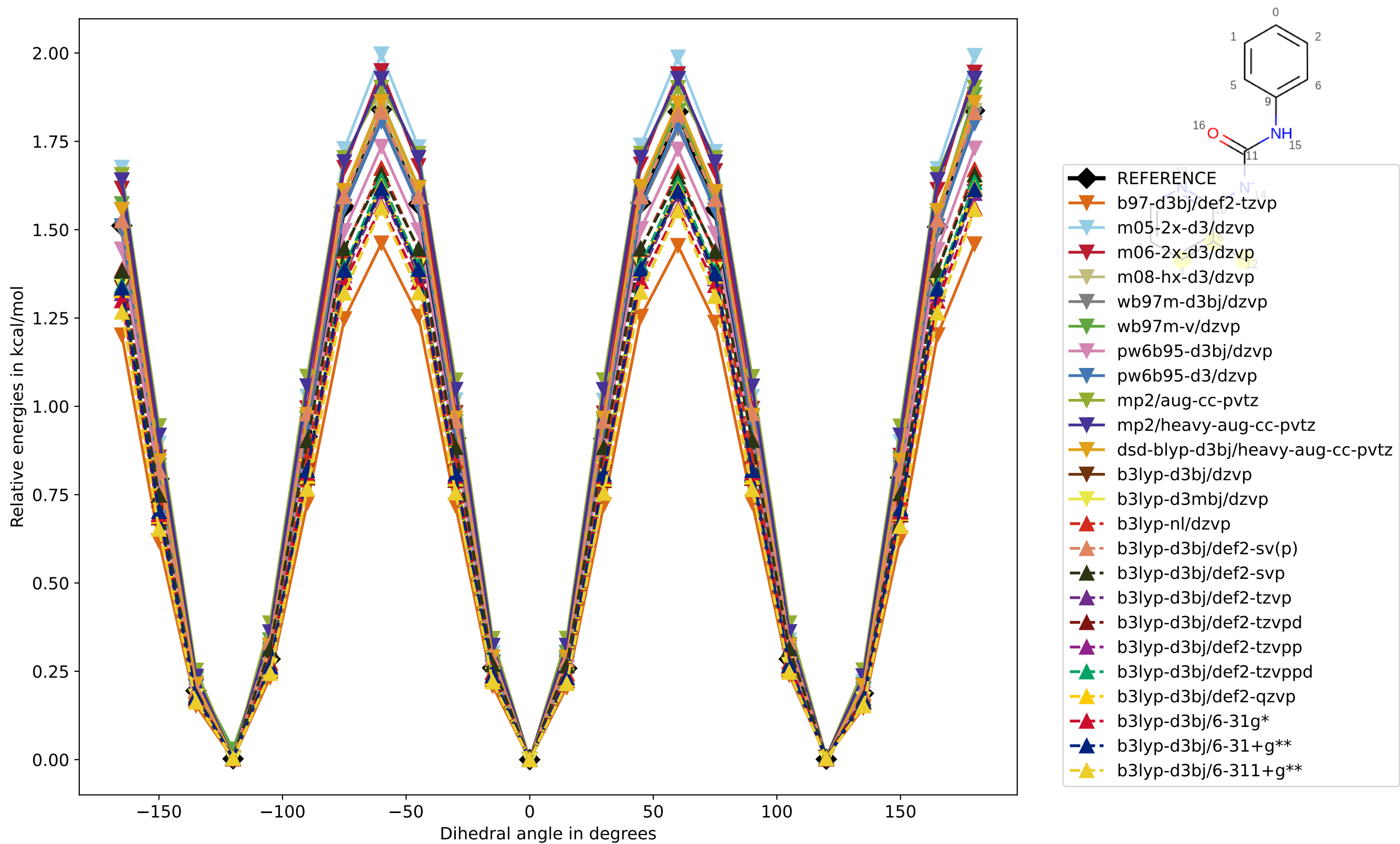
Charged molecule



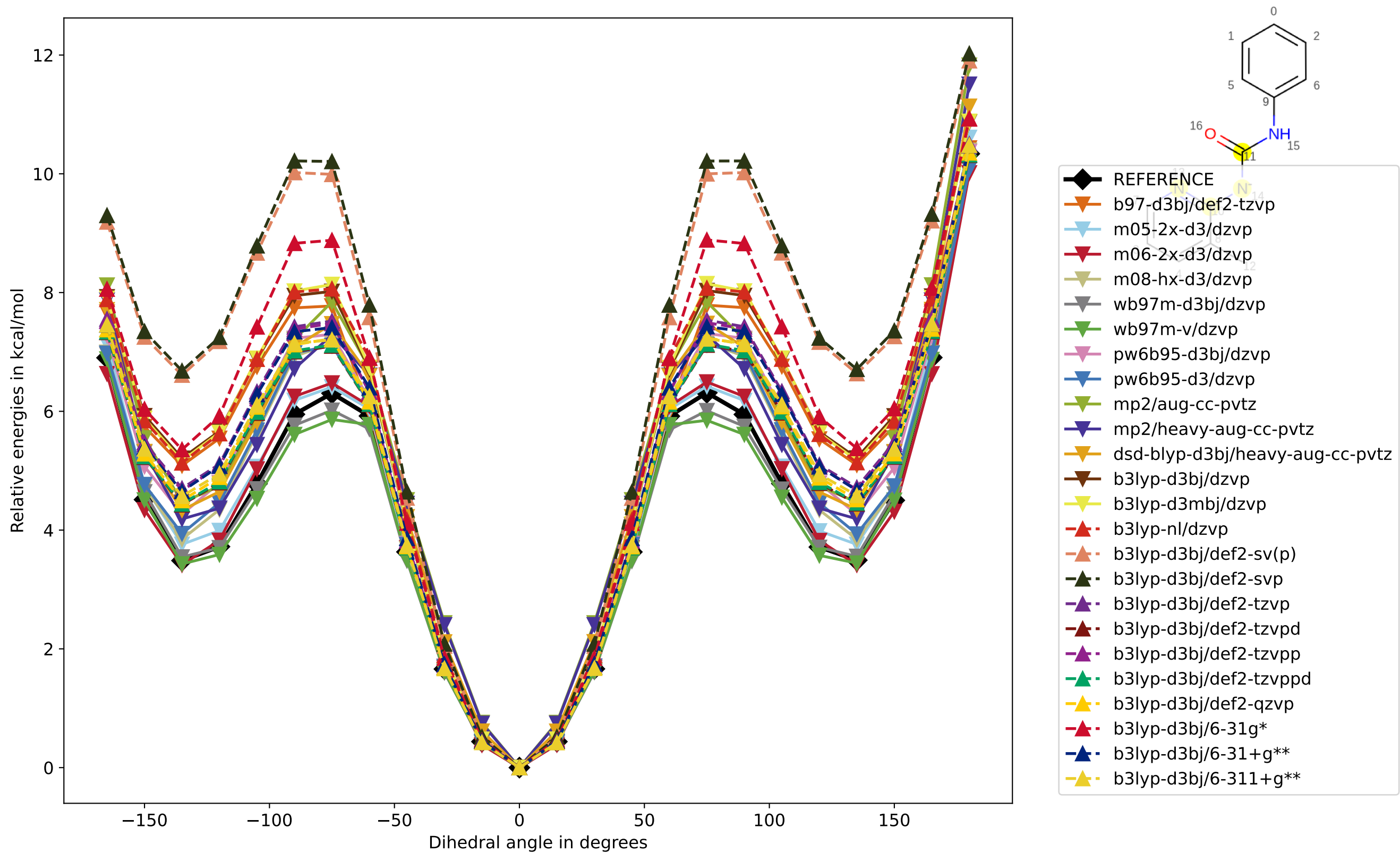
Charged molecule



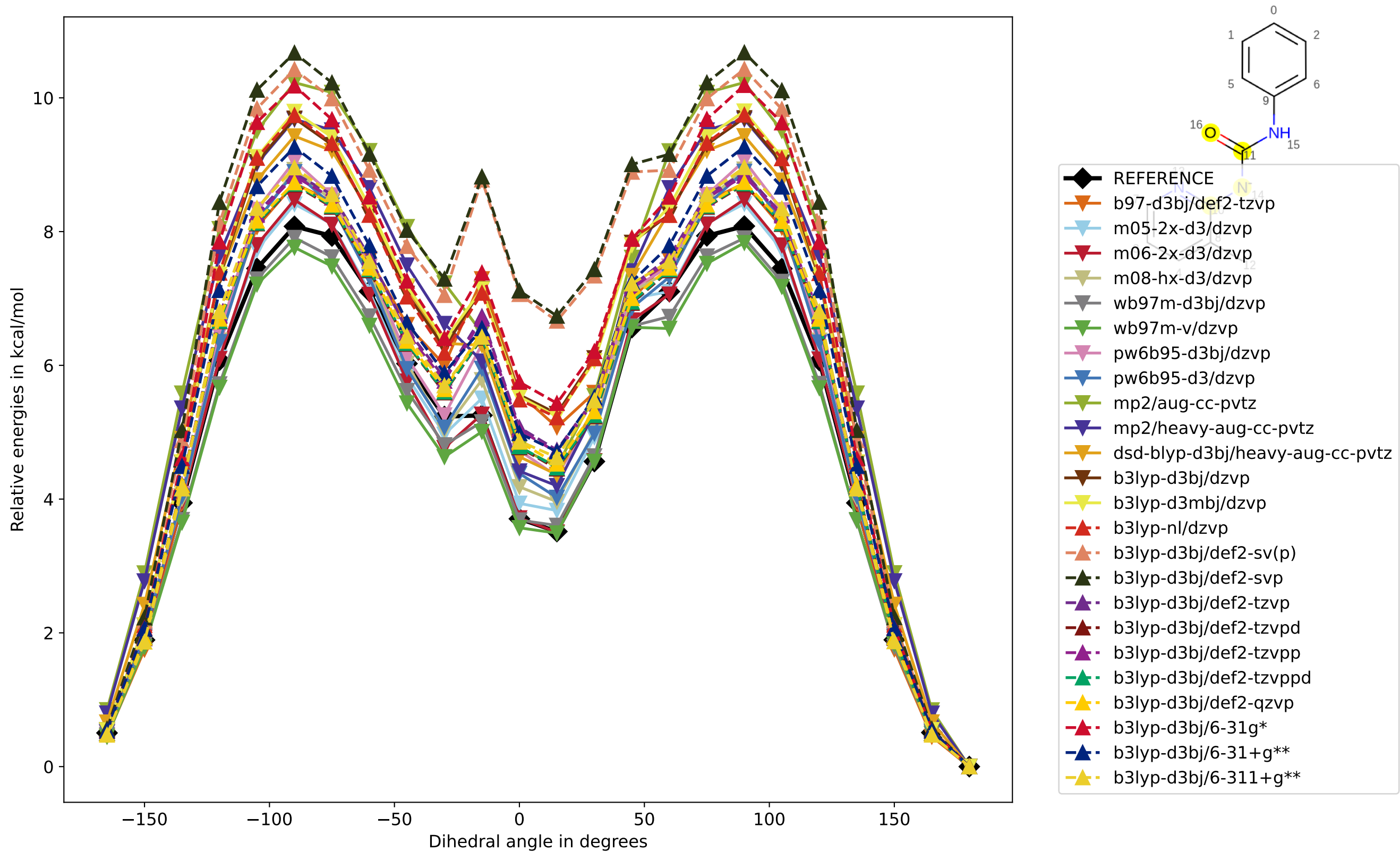
Charged molecule



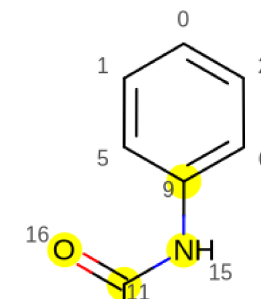
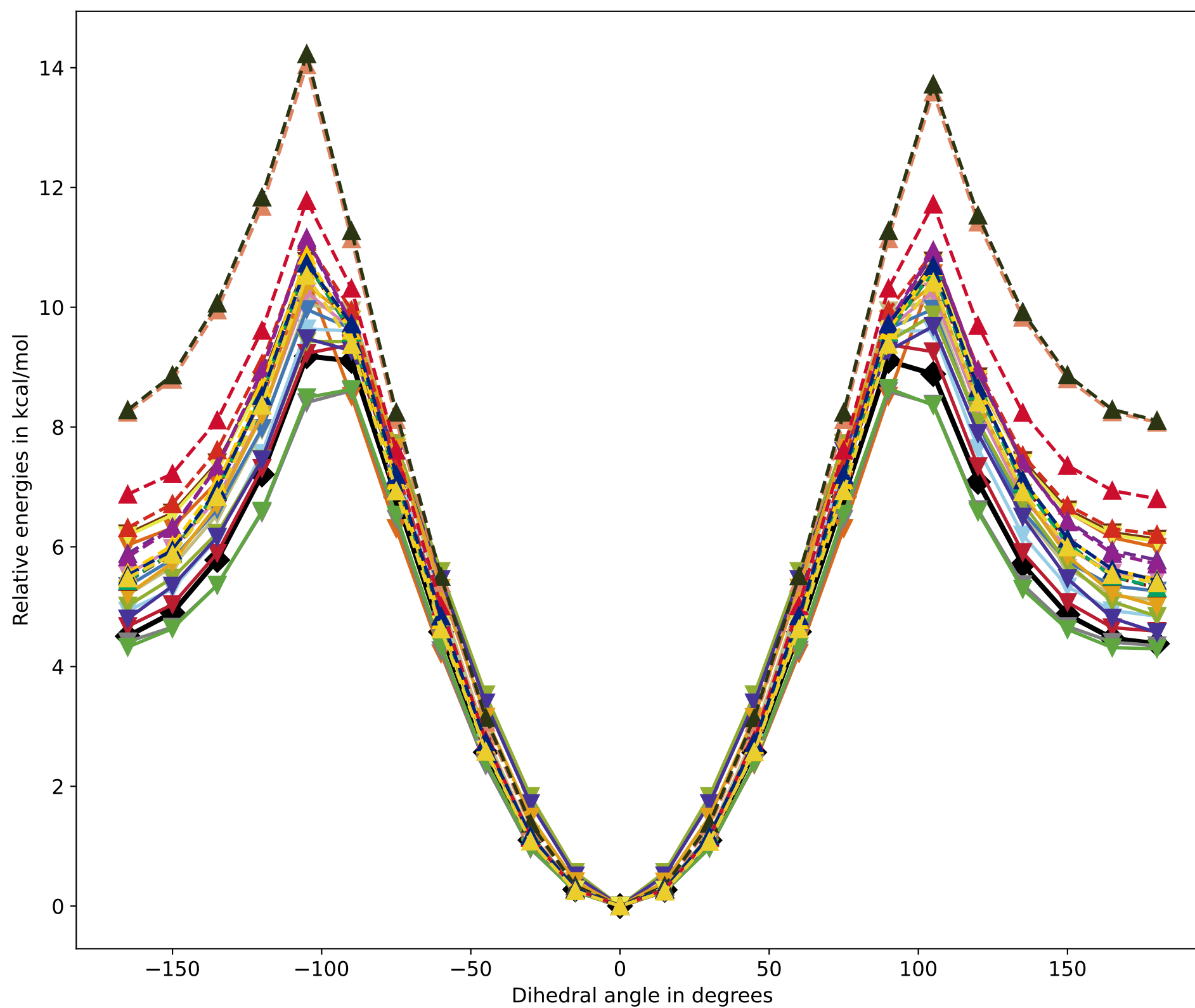
Charged molecule



Charged molecule

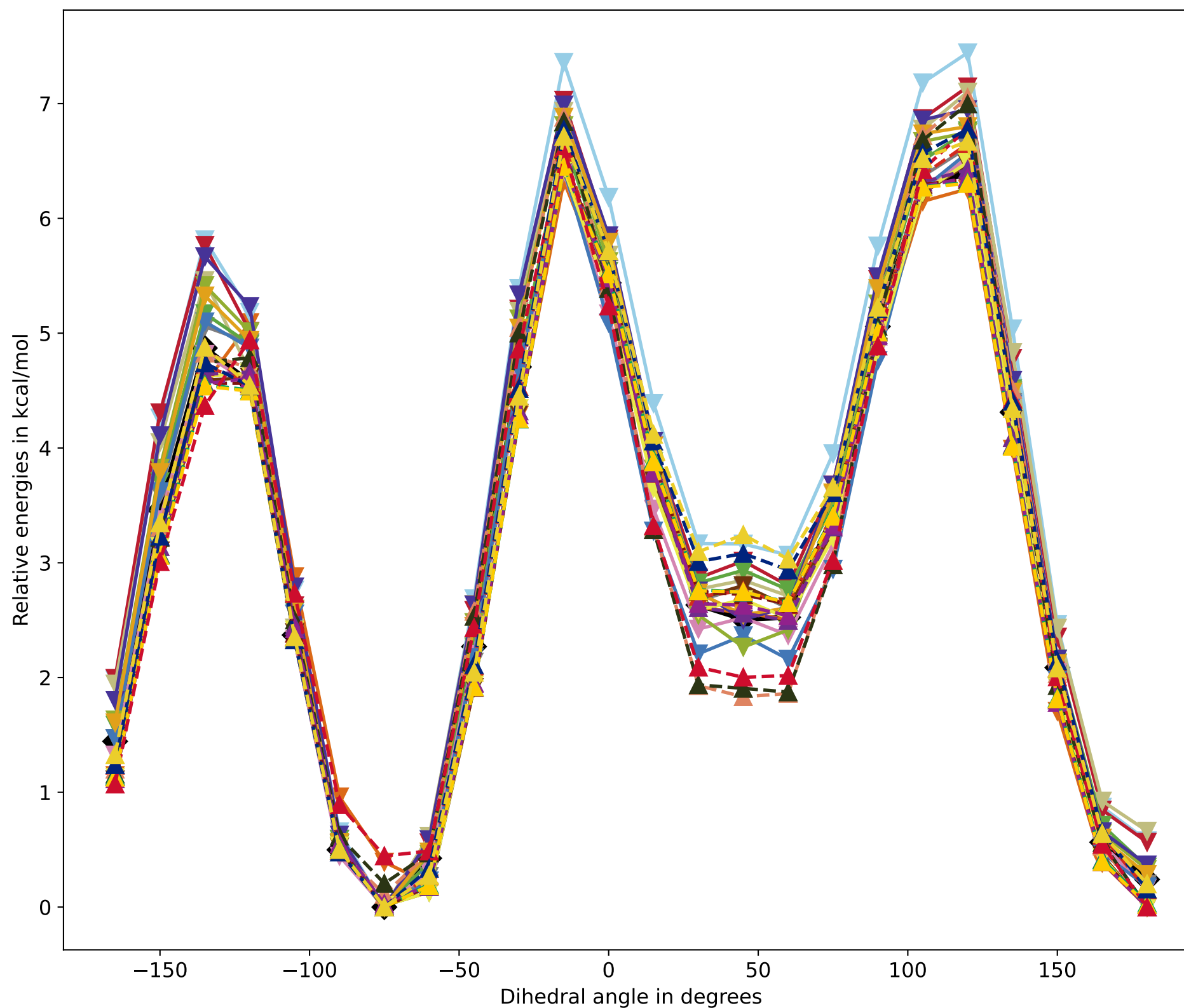
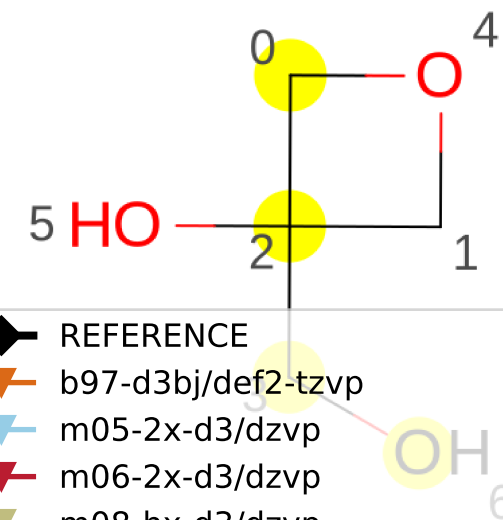


Charged molecule

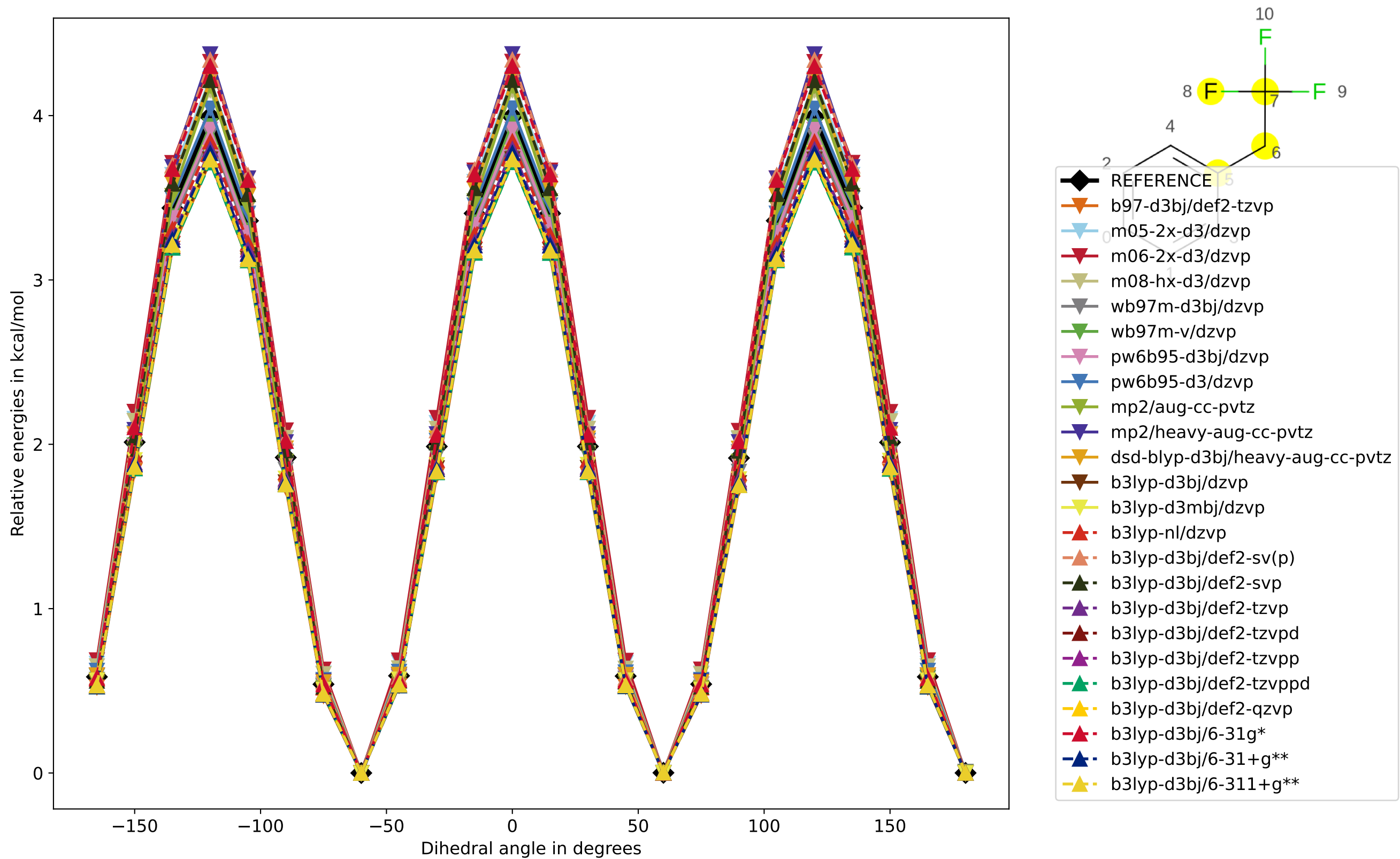


- REFERENCE
- b97-d3bj/def2-tzvp
- m05-2x-d3/dzvp
- m06-2x-d3/dzvp
- m08-hx-d3/dzvp
- wb97m-d3bj/dzvp
- wb97m-v/dzvp
- pw6b95-d3bj/dzvp
- pw6b95-d3/dzvp
- mp2/aug-cc-pvtz
- mp2/heavy-aug-cc-pvtz
- dsd-blyp-d3bj/heavy-aug-cc-pvtz
- b3lyp-d3bj/dzvp
- b3lyp-d3mbj/dzvp
- b3lyp-nl/dzvp
- b3lyp-d3bj/def2-sv(p)
- b3lyp-d3bj/def2-svp
- b3lyp-d3bj/def2-tzvp
- b3lyp-d3bj/def2-tzvppd
- b3lyp-d3bj/def2-tzvppp
- b3lyp-d3bj/def2-tzvpppd
- b3lyp-d3bj/def2-qzvp
- b3lyp-d3bj/6-31g*
- b3lyp-d3bj/6-31+g**
- b3lyp-d3bj/6-311+g**

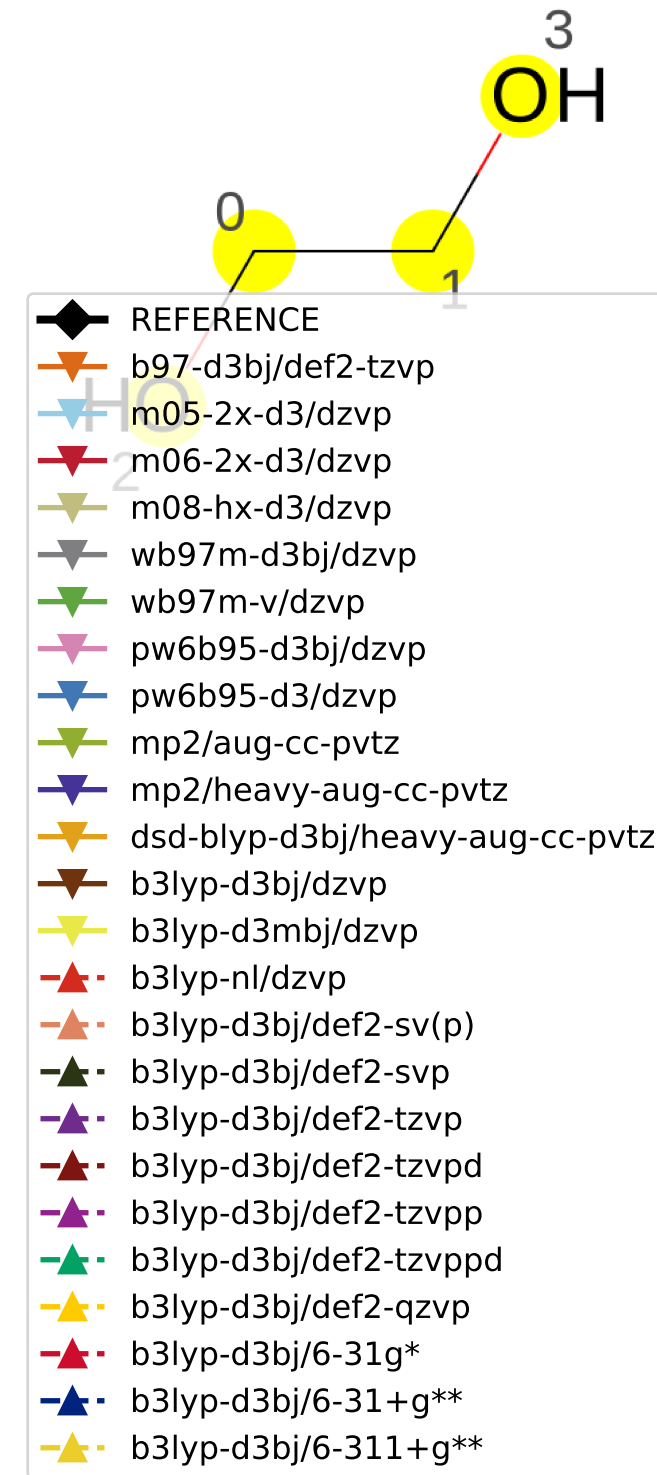
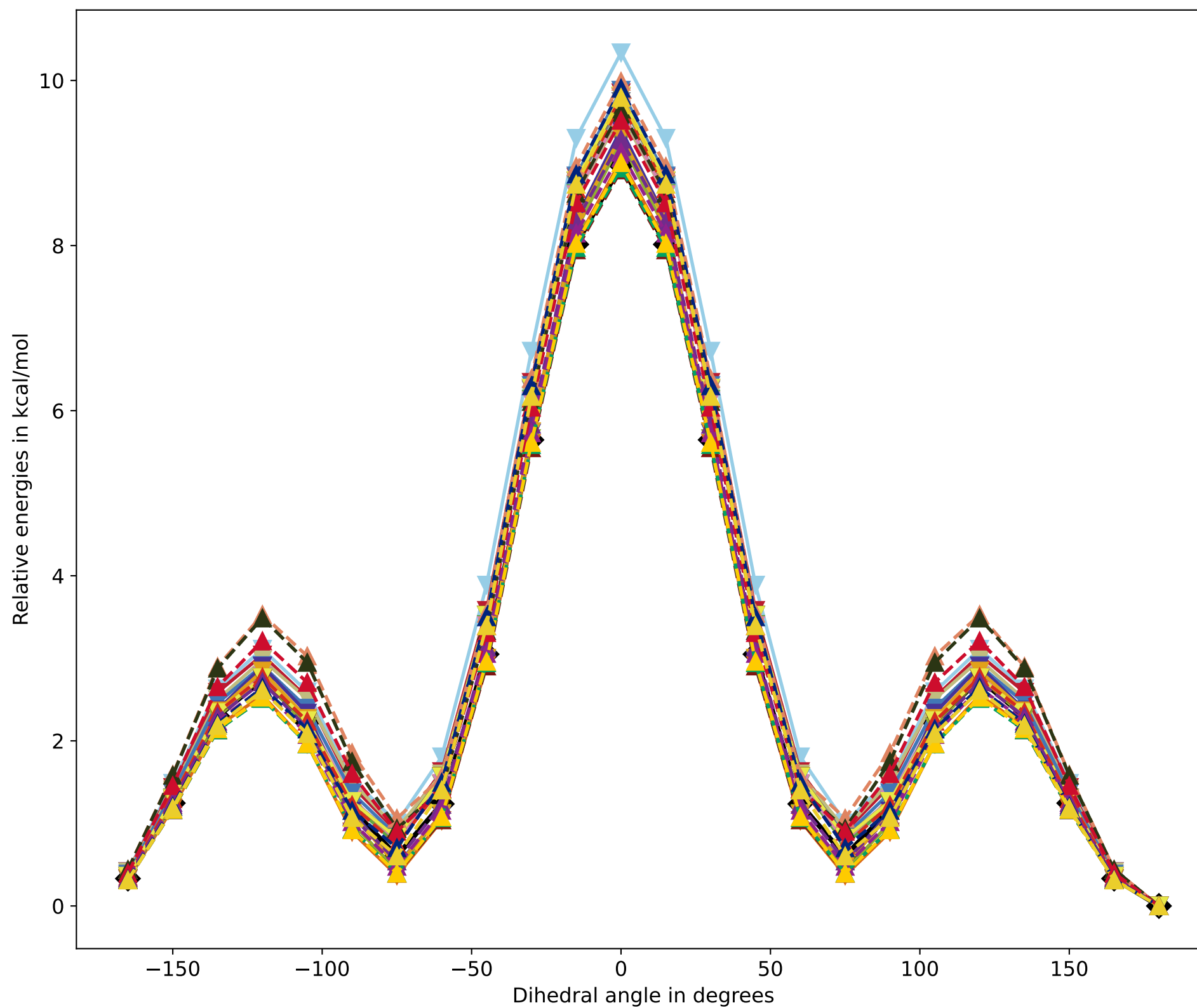
Neutral molecule



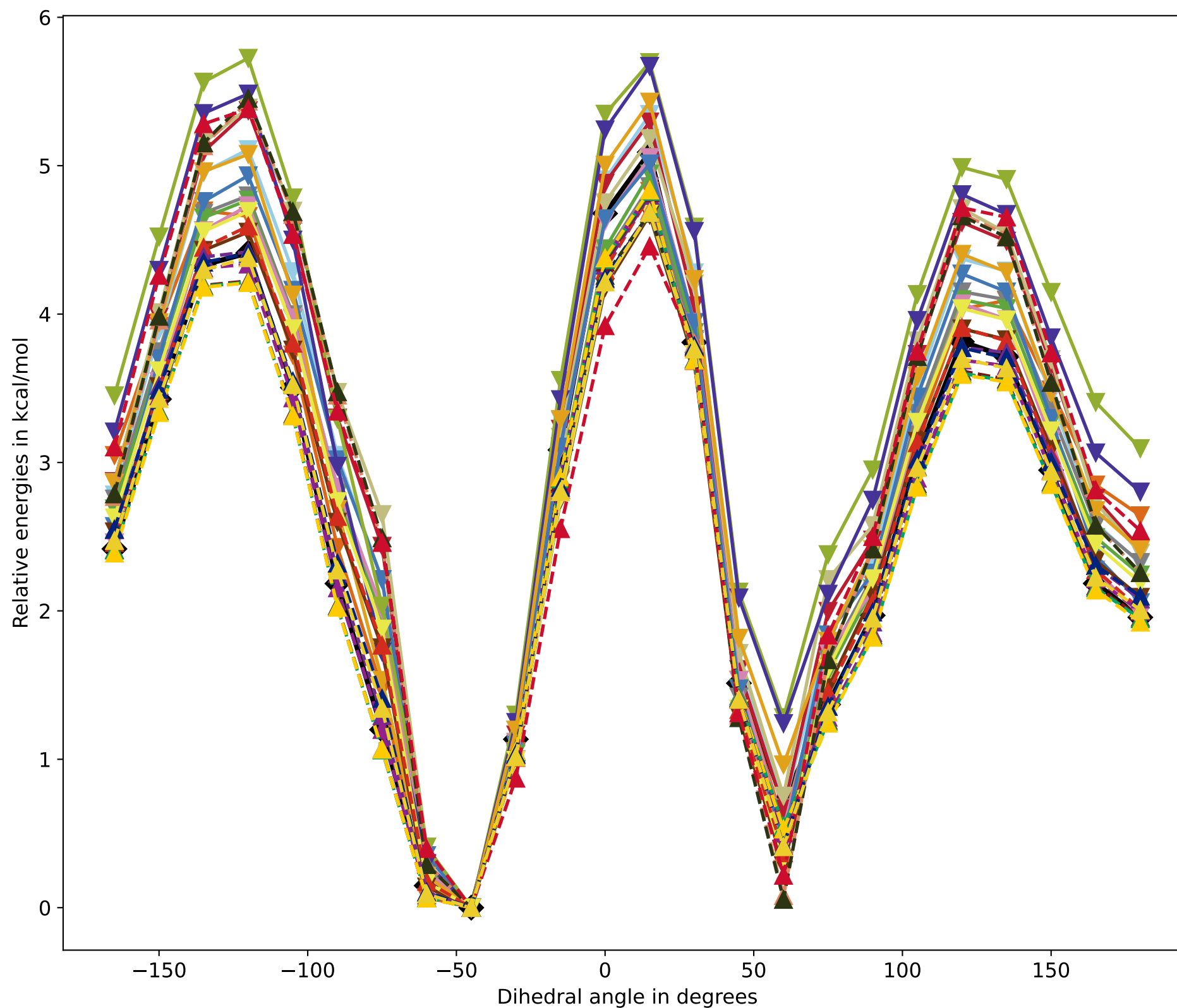
Neutral molecule



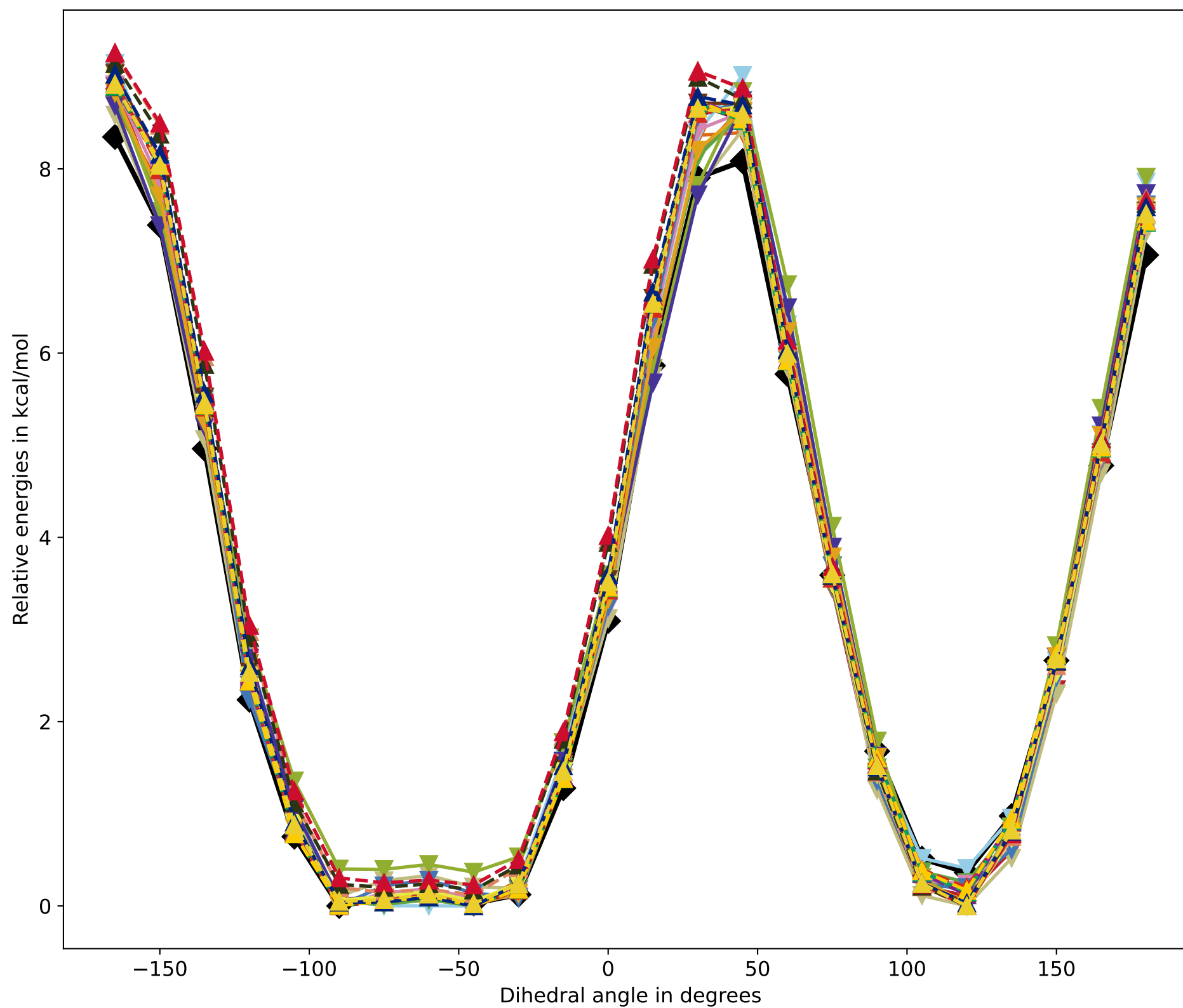
Neutral molecule



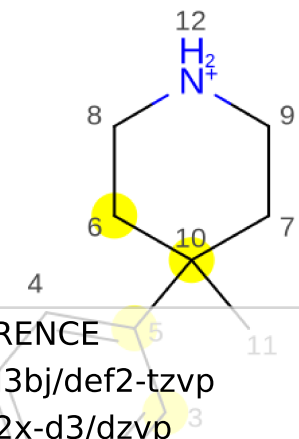
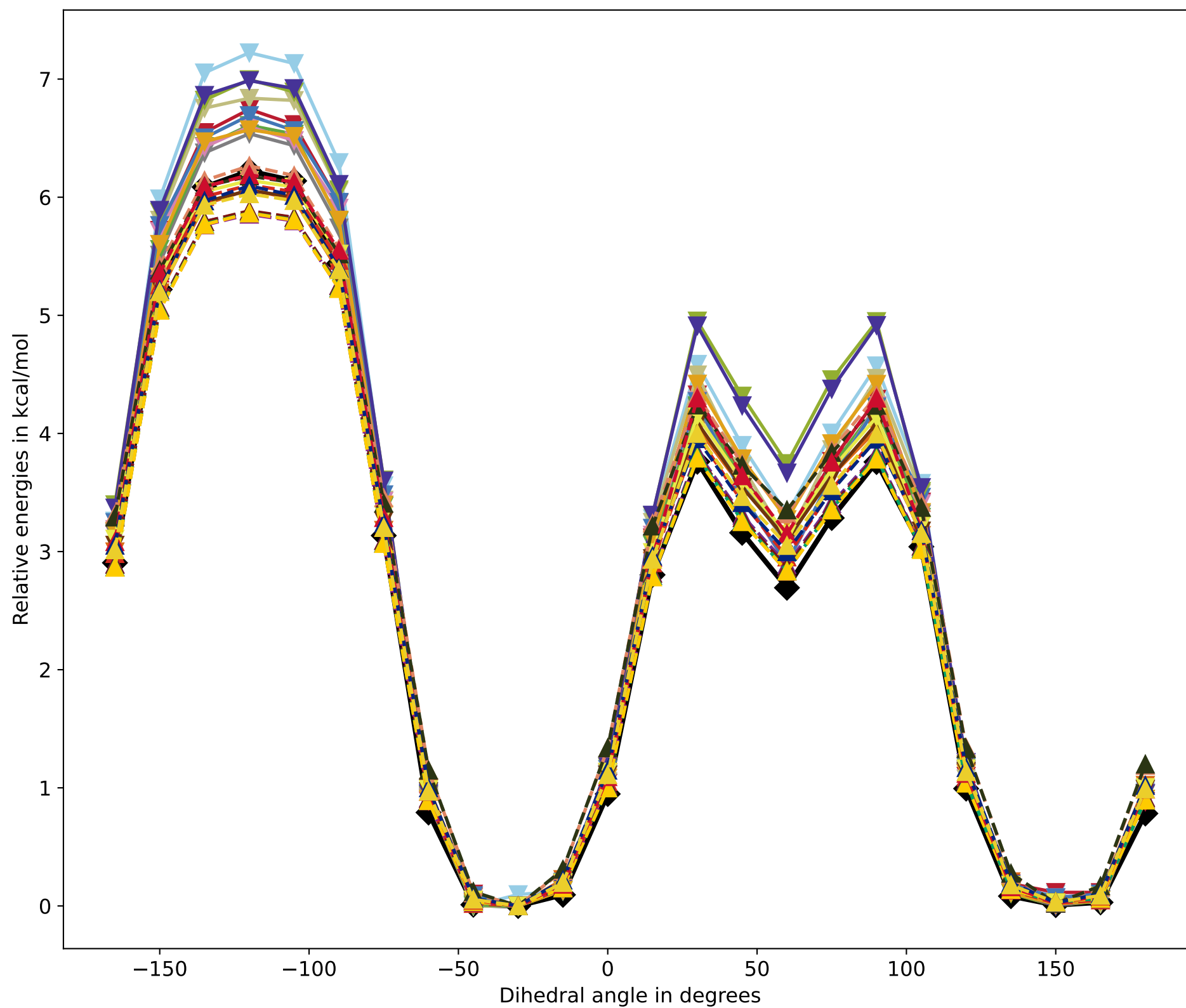
Neutral molecule



Neutral molecule

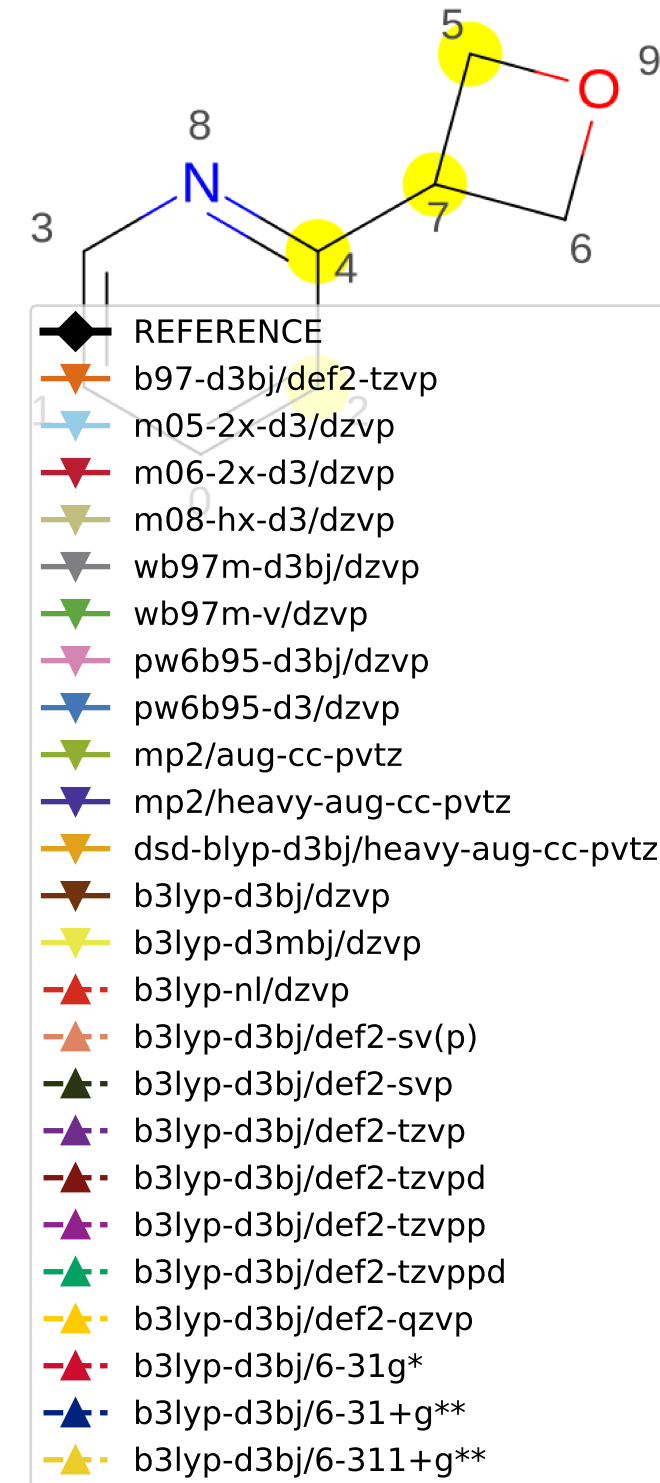
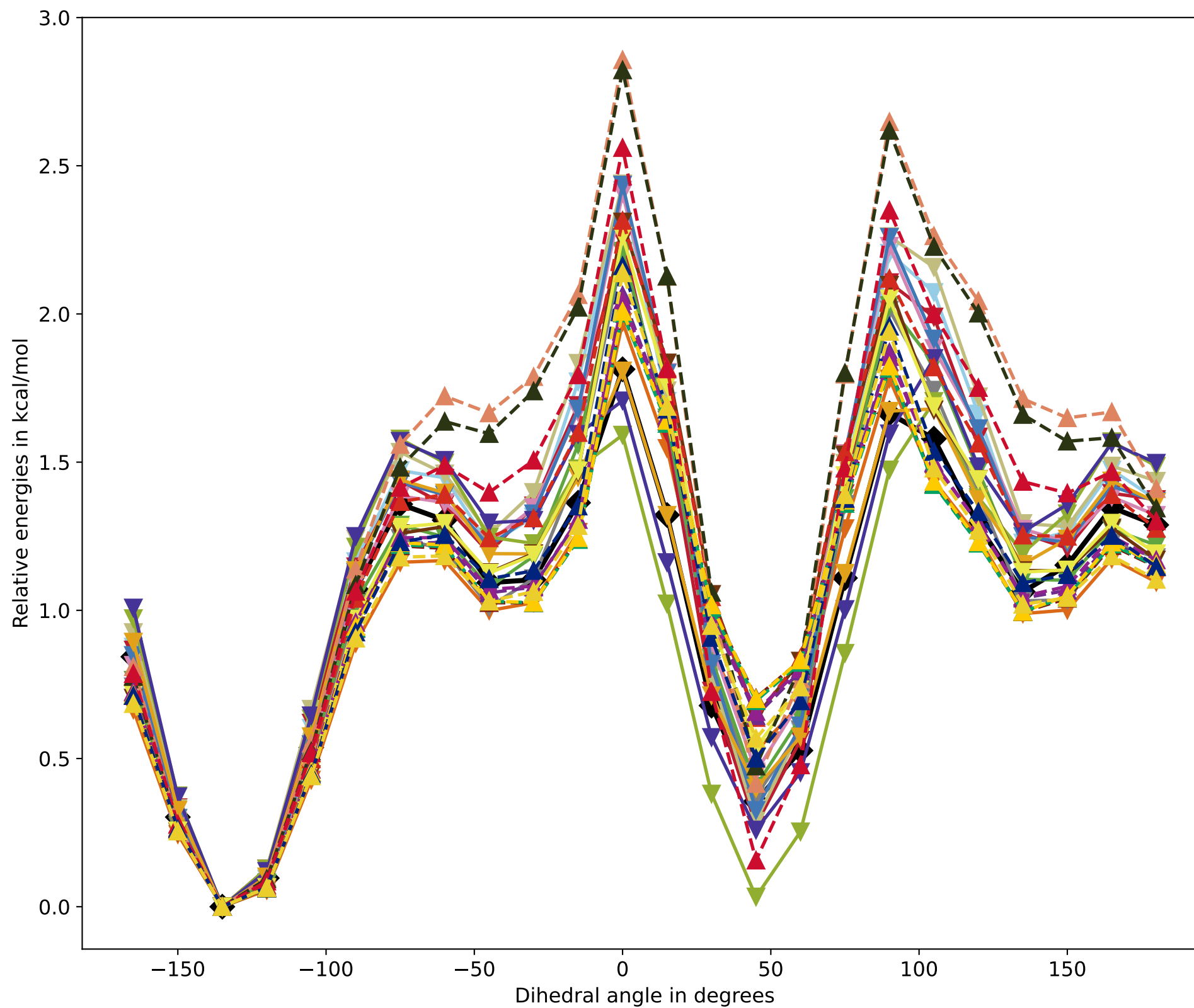


Charged molecule

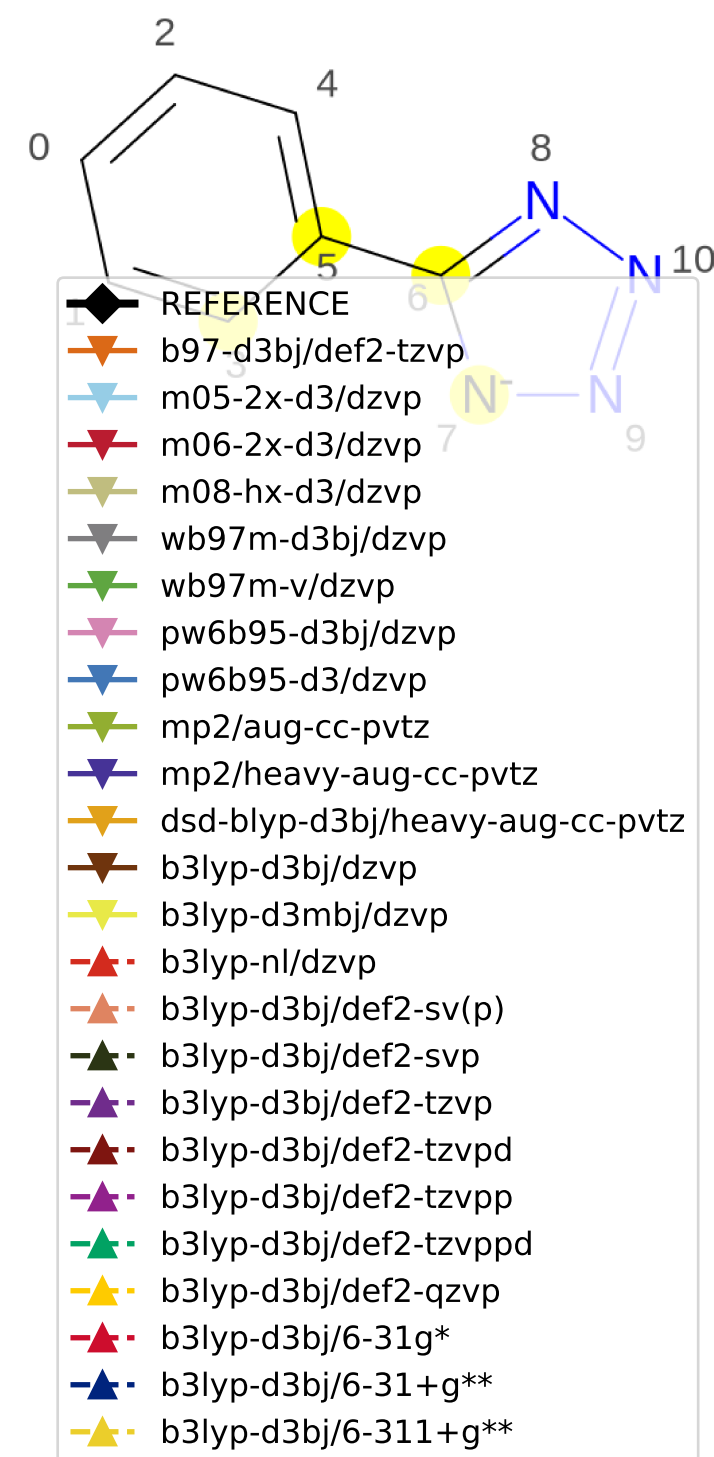
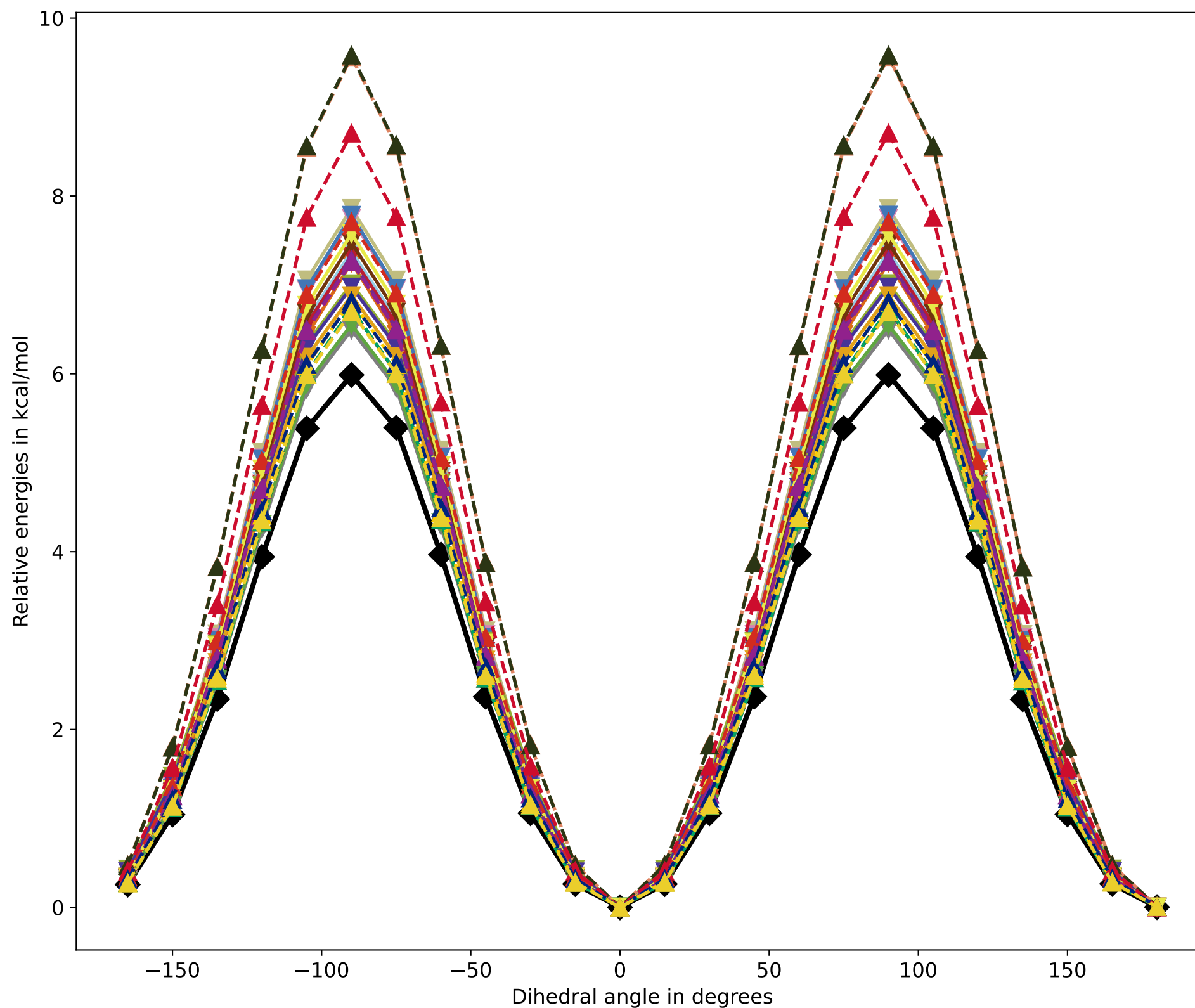


- ◆ REFERENCE
- ▴ b97-d3bj/def2-tzvp
- ▾ m05-2x-d3/dzvp
- ▾ m06-2x-d3/dzvp
- ▾ m08-hx-d3/dzvp
- ▾ wb97m-d3bj/dzvp
- ▾ wb97m-v/dzvp
- ▾ pw6b95-d3bj/dzvp
- ▾ pw6b95-d3/dzvp
- ▾ mp2/aug-cc-pvtz
- ▾ mp2/heavy-aug-cc-pvtz
- ▾ dsd-blyp-d3bj/heavy-aug-cc-pvtz
- ▾ b3lyp-d3bj/dzvp
- ▾ b3lyp-d3mbj/dzvp
- ▾ b3lyp-nl/dzvp
- ▾ b3lyp-d3bj/def2-sv(p)
- ▾ b3lyp-d3bj/def2-svp
- ▾ b3lyp-d3bj/def2-tzvp
- ▾ b3lyp-d3bj/def2-tzvppd
- ▾ b3lyp-d3bj/def2-tzvpp
- ▾ b3lyp-d3bj/def2-tzvppd
- ▾ b3lyp-d3bj/def2-qzv
- ▾ b3lyp-d3bj/6-31g*
- ▾ b3lyp-d3bj/6-31+g**
- ▾ b3lyp-d3bj/6-311+g**

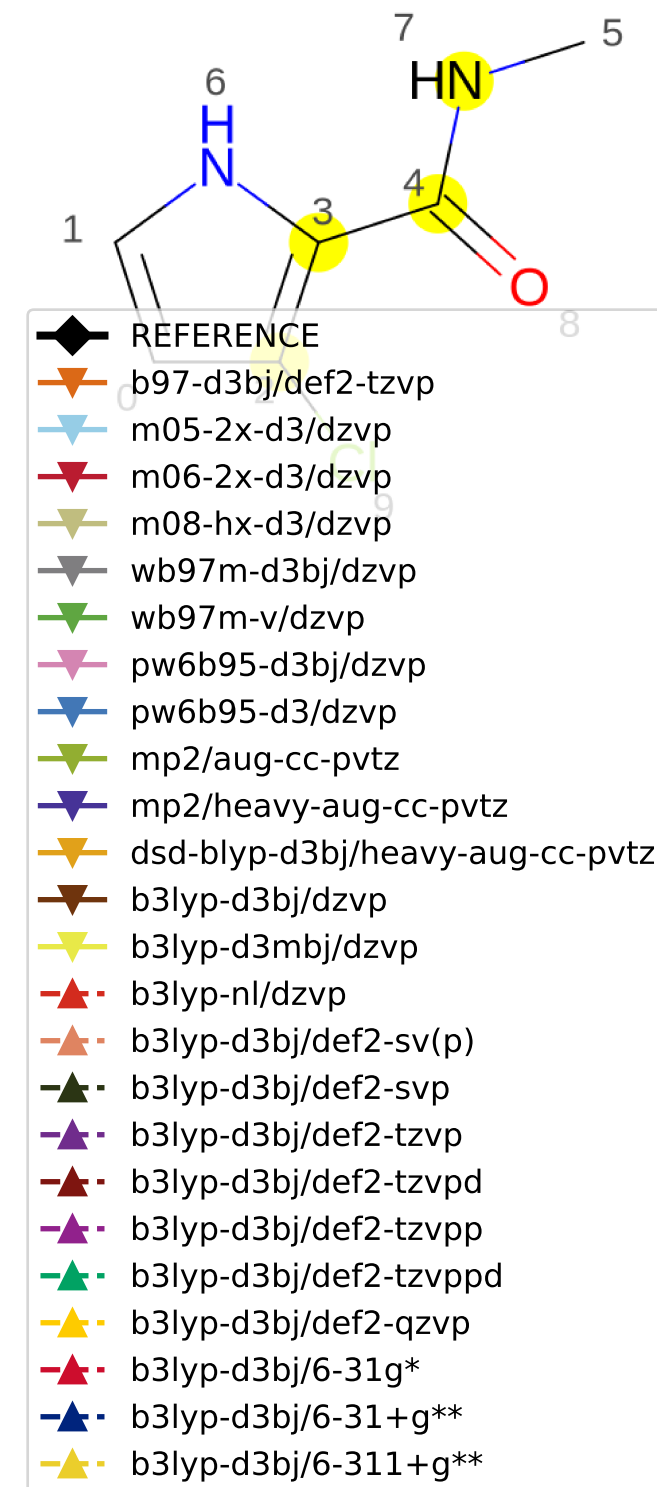
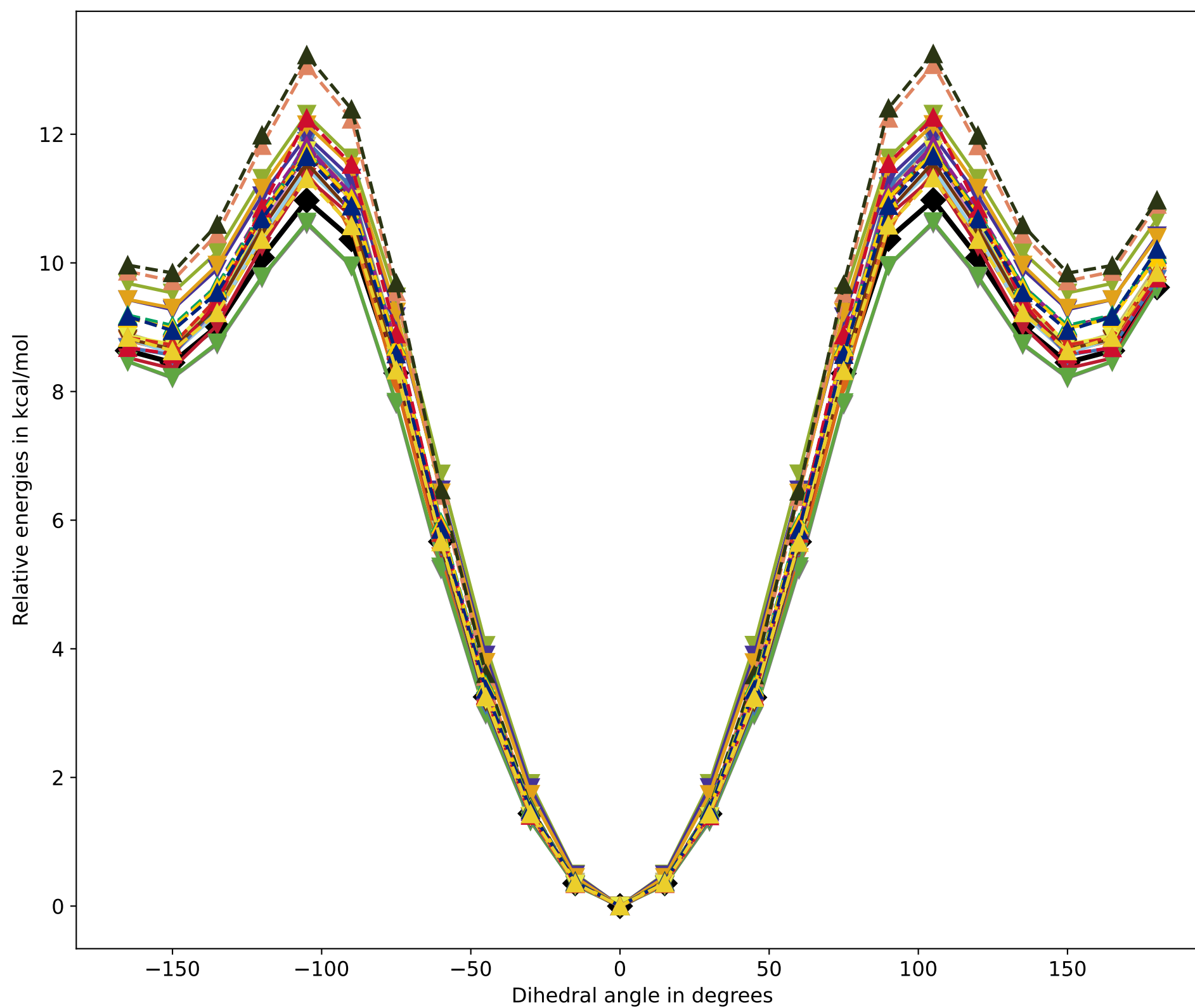
Neutral molecule



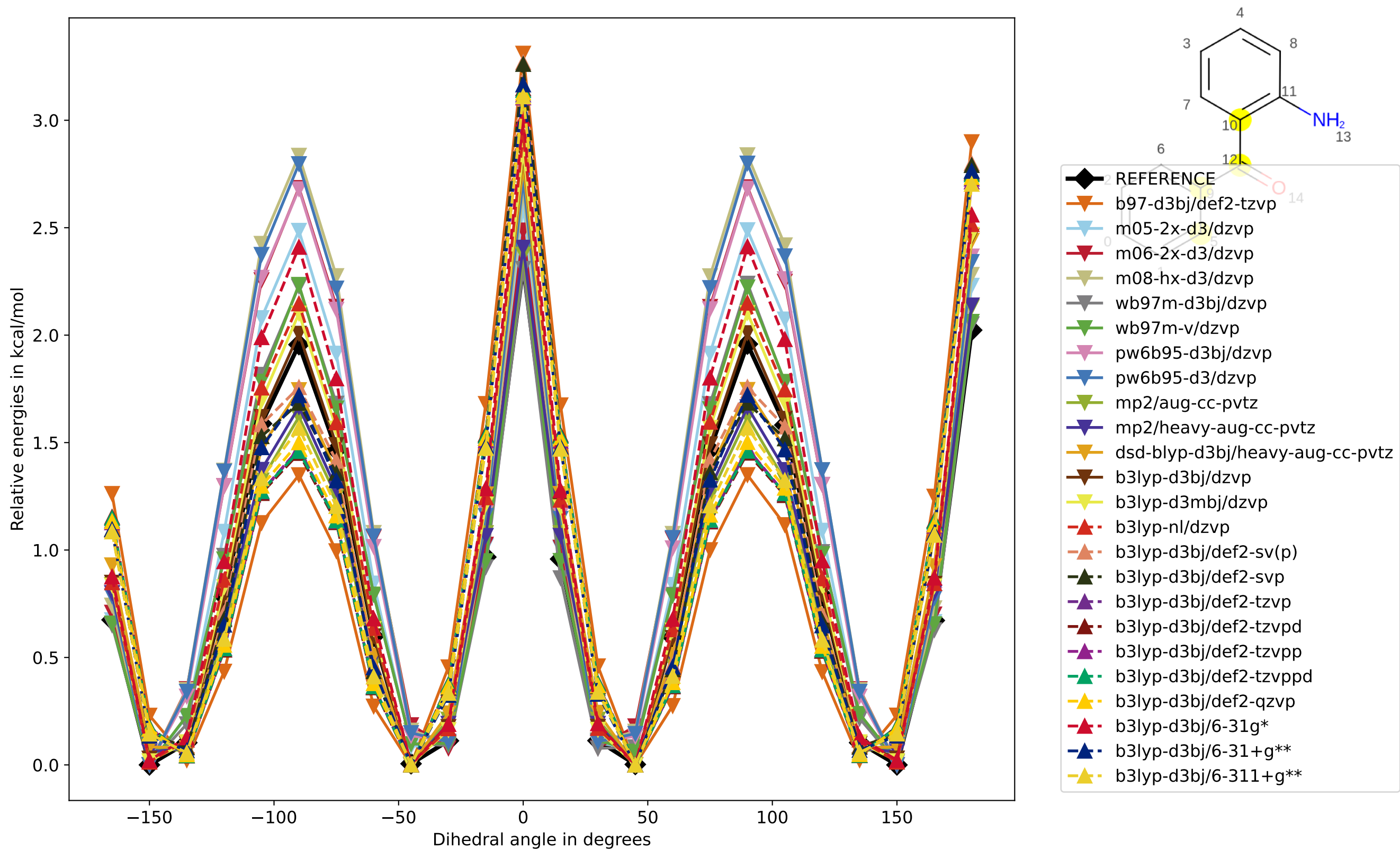
Charged molecule



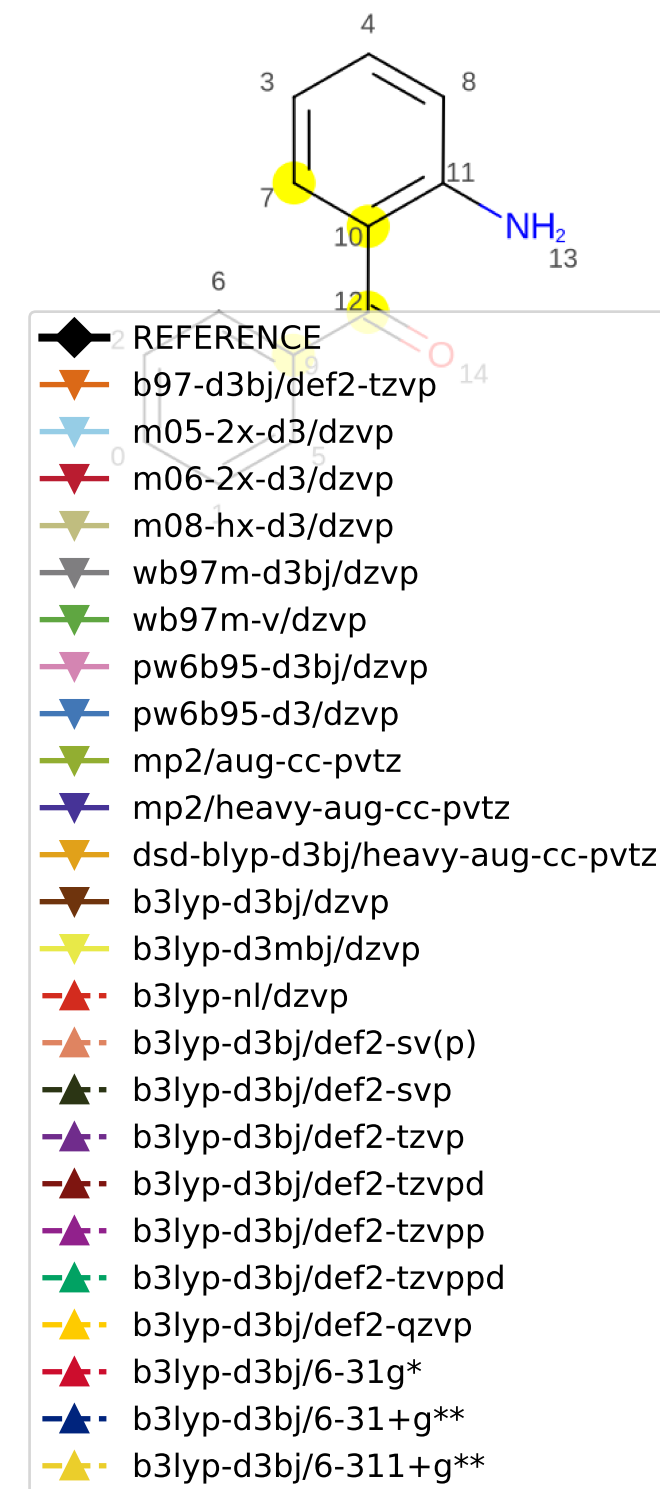
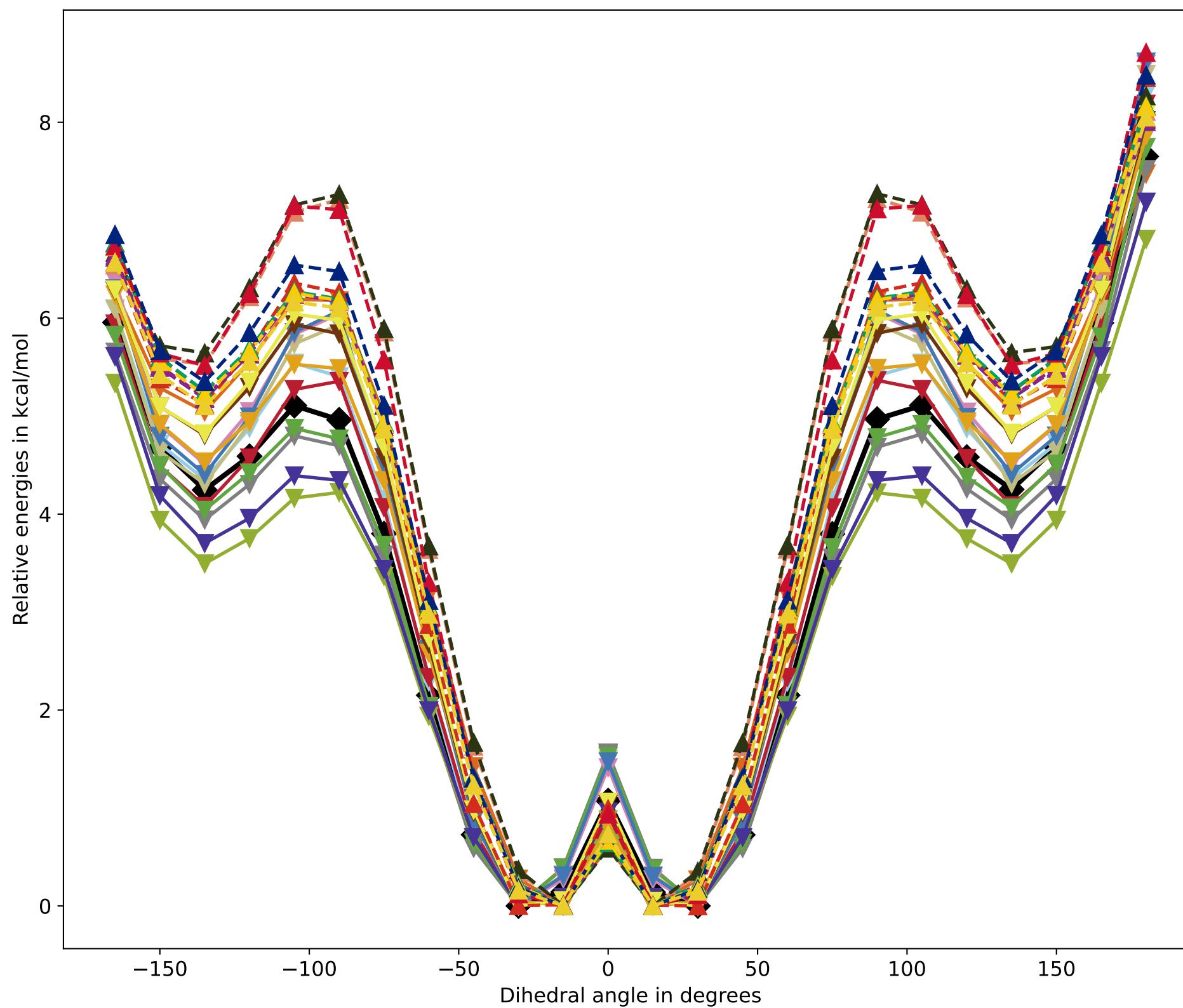
Neutral molecule



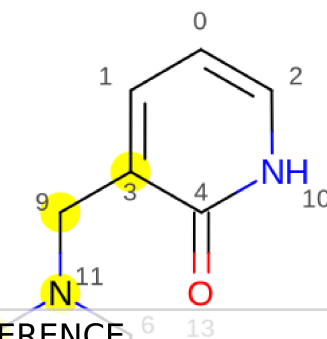
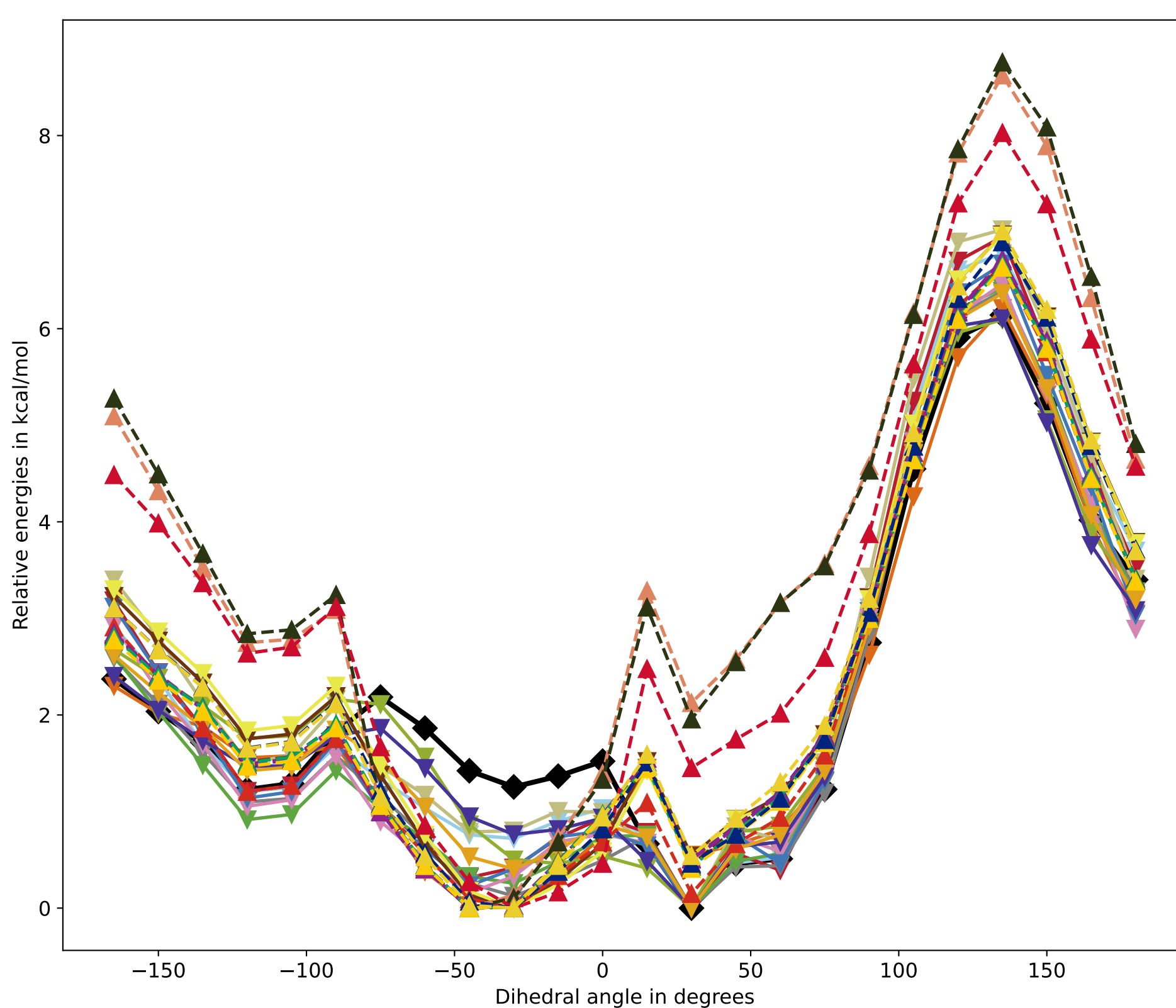
Neutral molecule



Neutral molecule

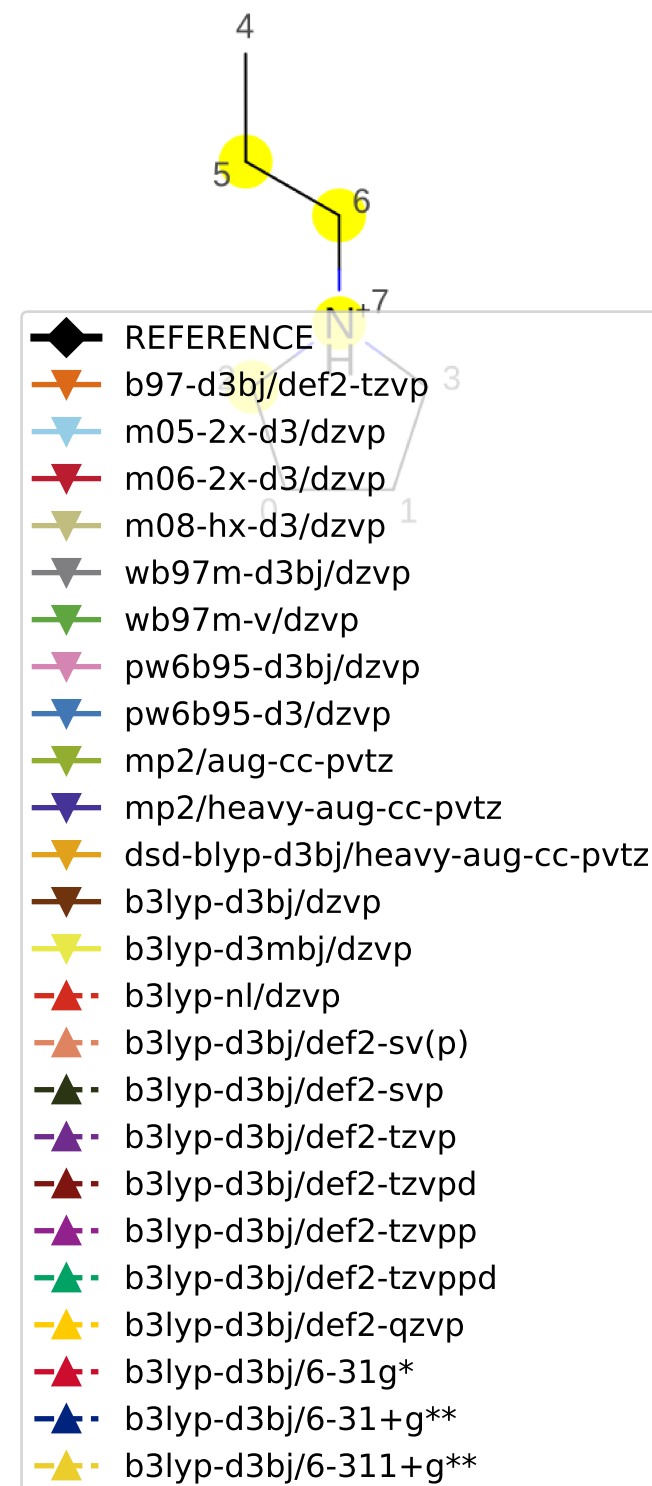
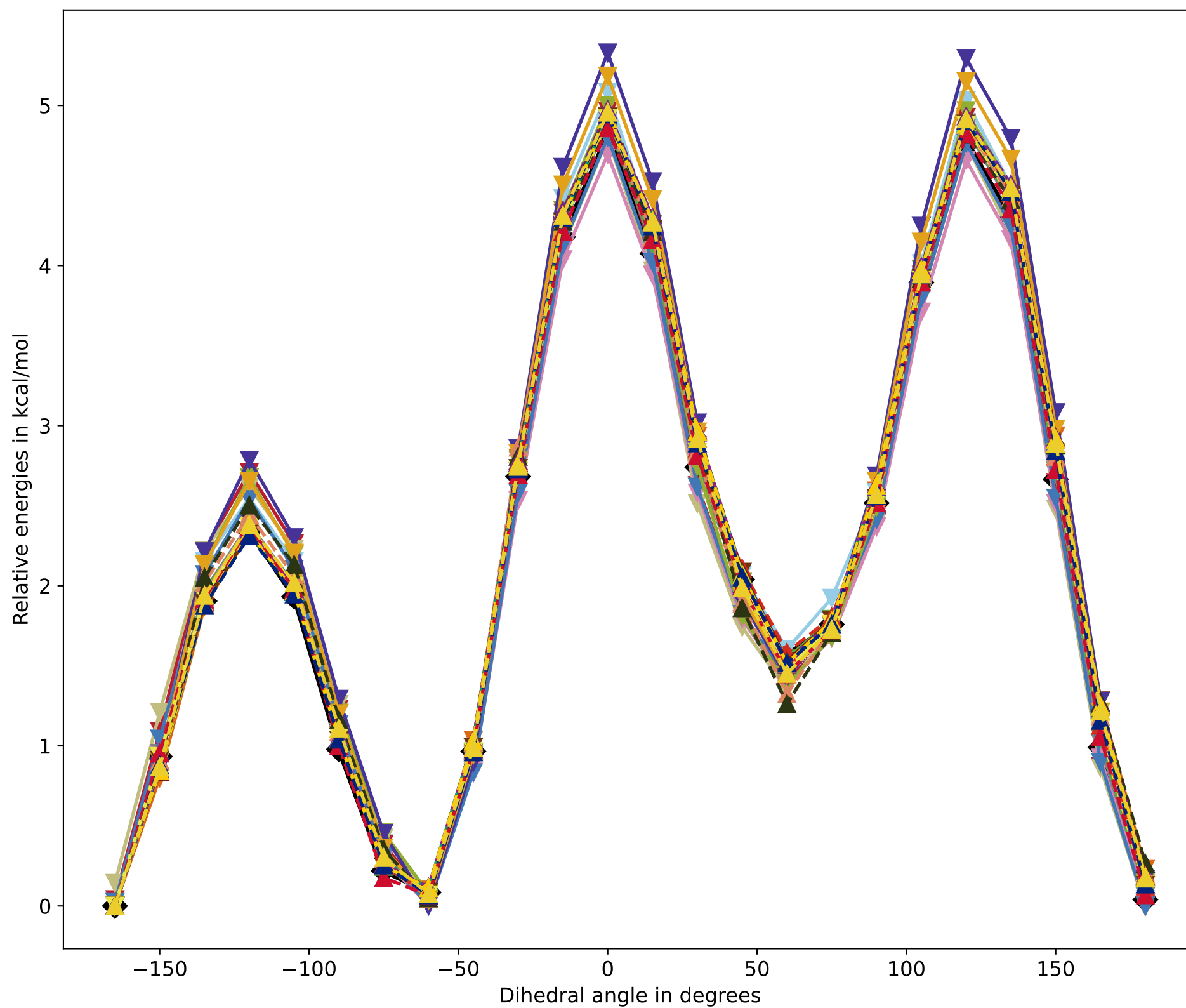


Charged molecule

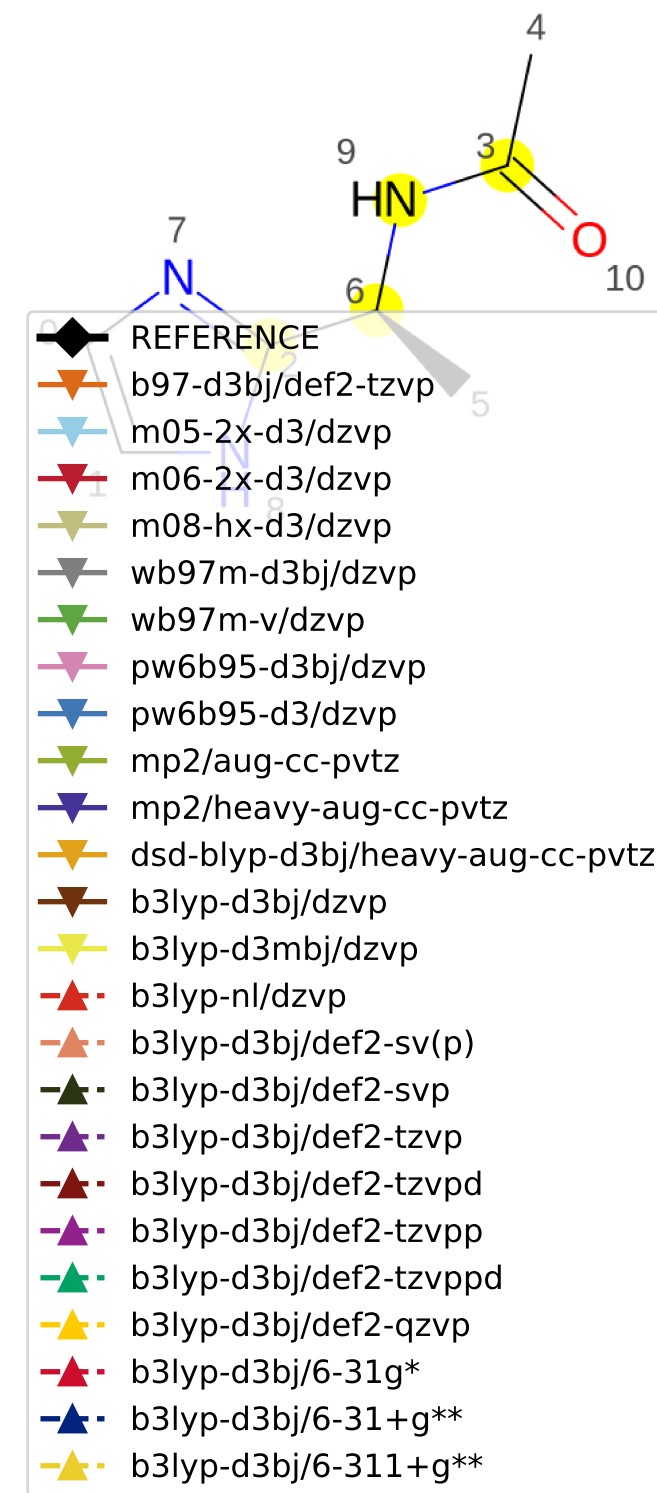
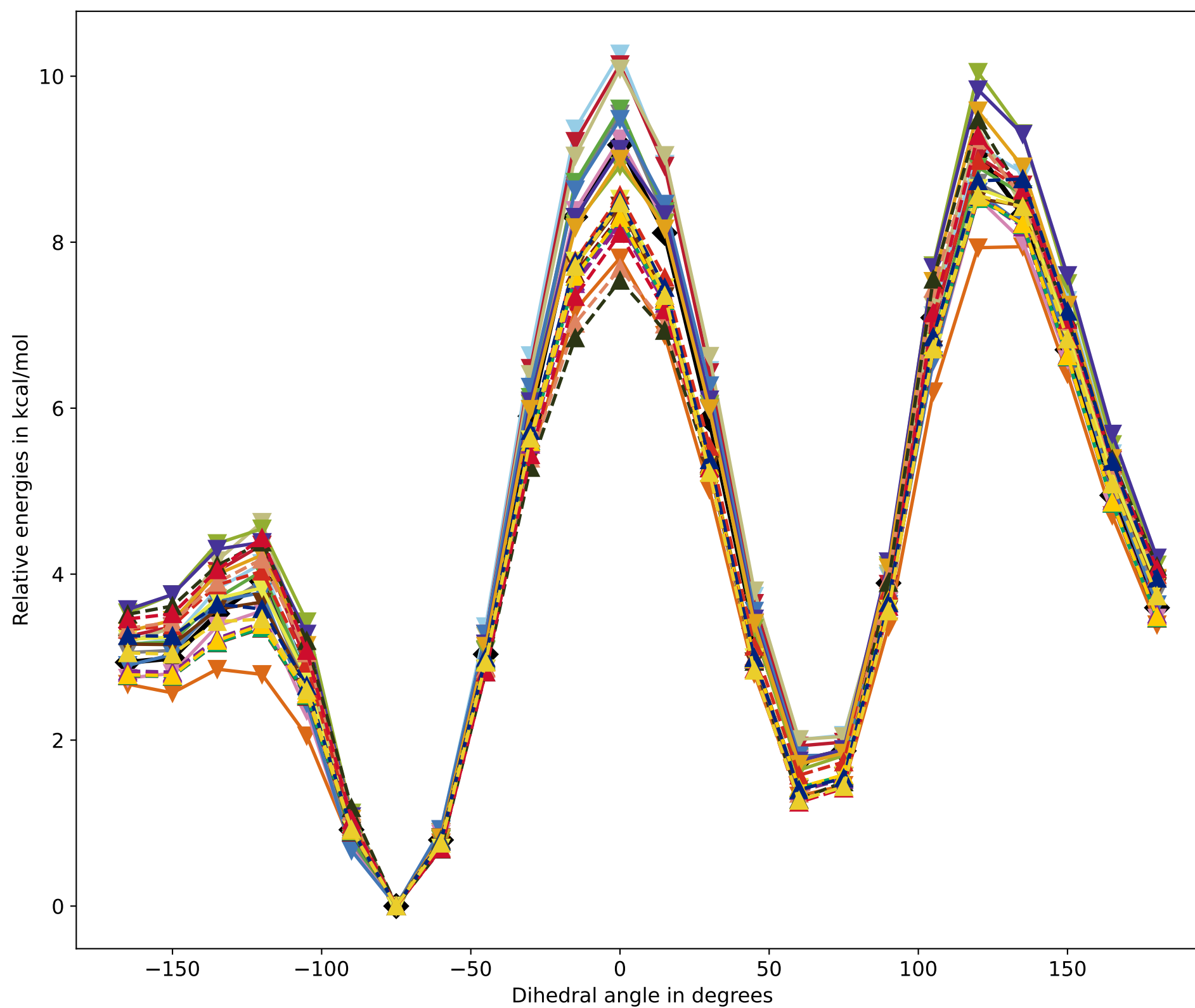


- REFERENCE
- b97-d3bj/def2-tzvp
- m05-2x-d3/dzvp
- m06-2x-d3/dzvp
- m08-hx-d3/dzvp
- wb97m-d3bj/dzvp
- wb97m-v/dzvp
- pw6b95-d3bj/dzvp
- pw6b95-d3/dzvp
- mp2/aug-cc-pvtz
- mp2/heavy-aug-cc-pvtz
- dsd-blyp-d3bj/heavy-aug-cc-pvtz
- b3lyp-d3bj/dzvp
- b3lyp-d3mbj/dzvp
- b3lyp-nl/dzvp
- b3lyp-d3bj/def2-sv(p)
- b3lyp-d3bj/def2-svp
- b3lyp-d3bj/def2-tzvp
- b3lyp-d3bj/def2-tzvppd
- b3lyp-d3bj/def2-tzvpp
- b3lyp-d3bj/def2-tzvppd
- b3lyp-d3bj/def2-qzvpp
- b3lyp-d3bj/6-31g*
- b3lyp-d3bj/6-31+g**
- b3lyp-d3bj/6-311+g**

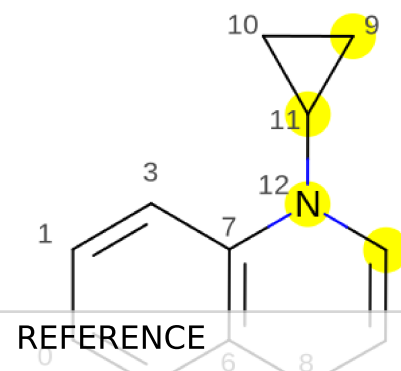
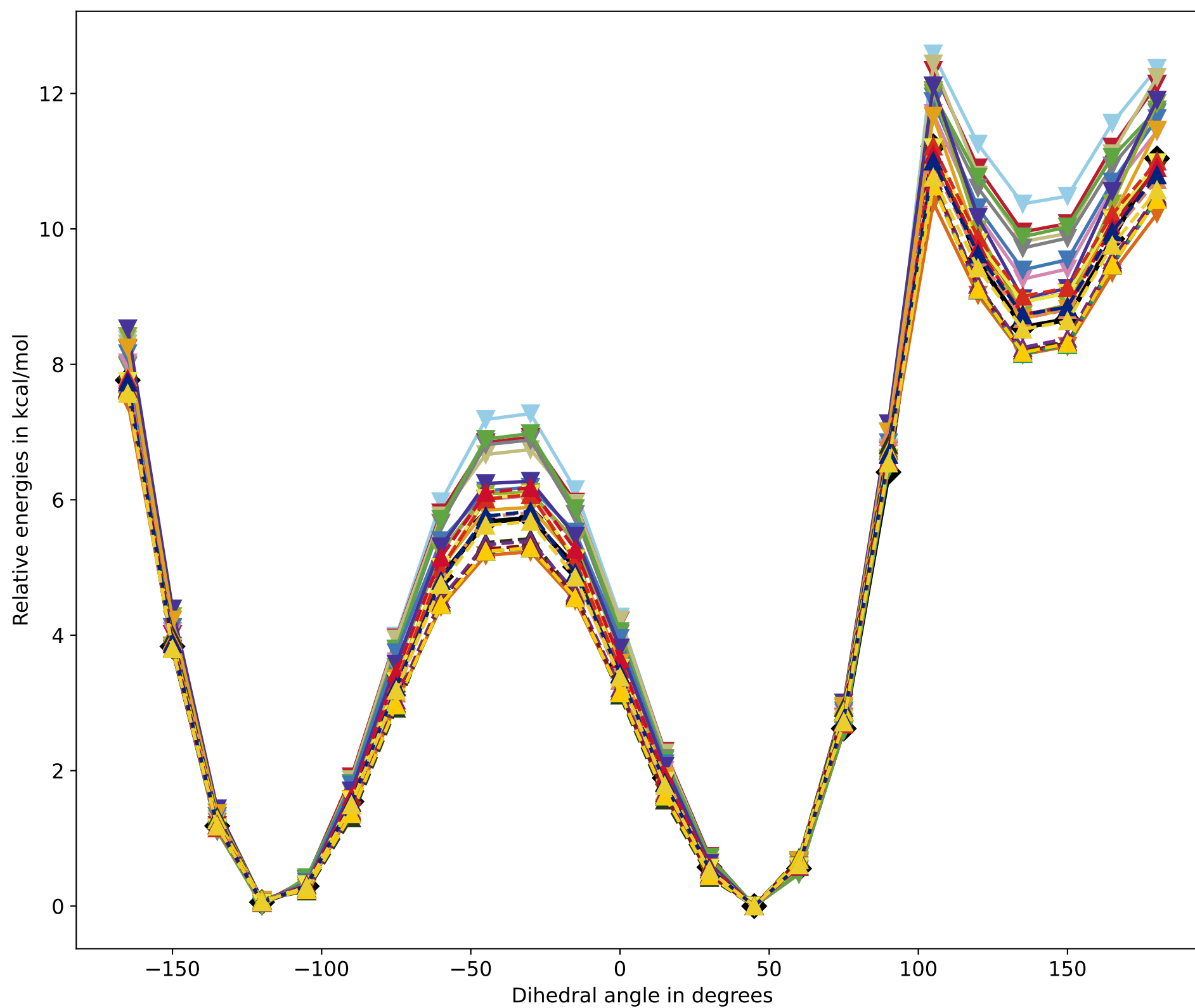
Charged molecule



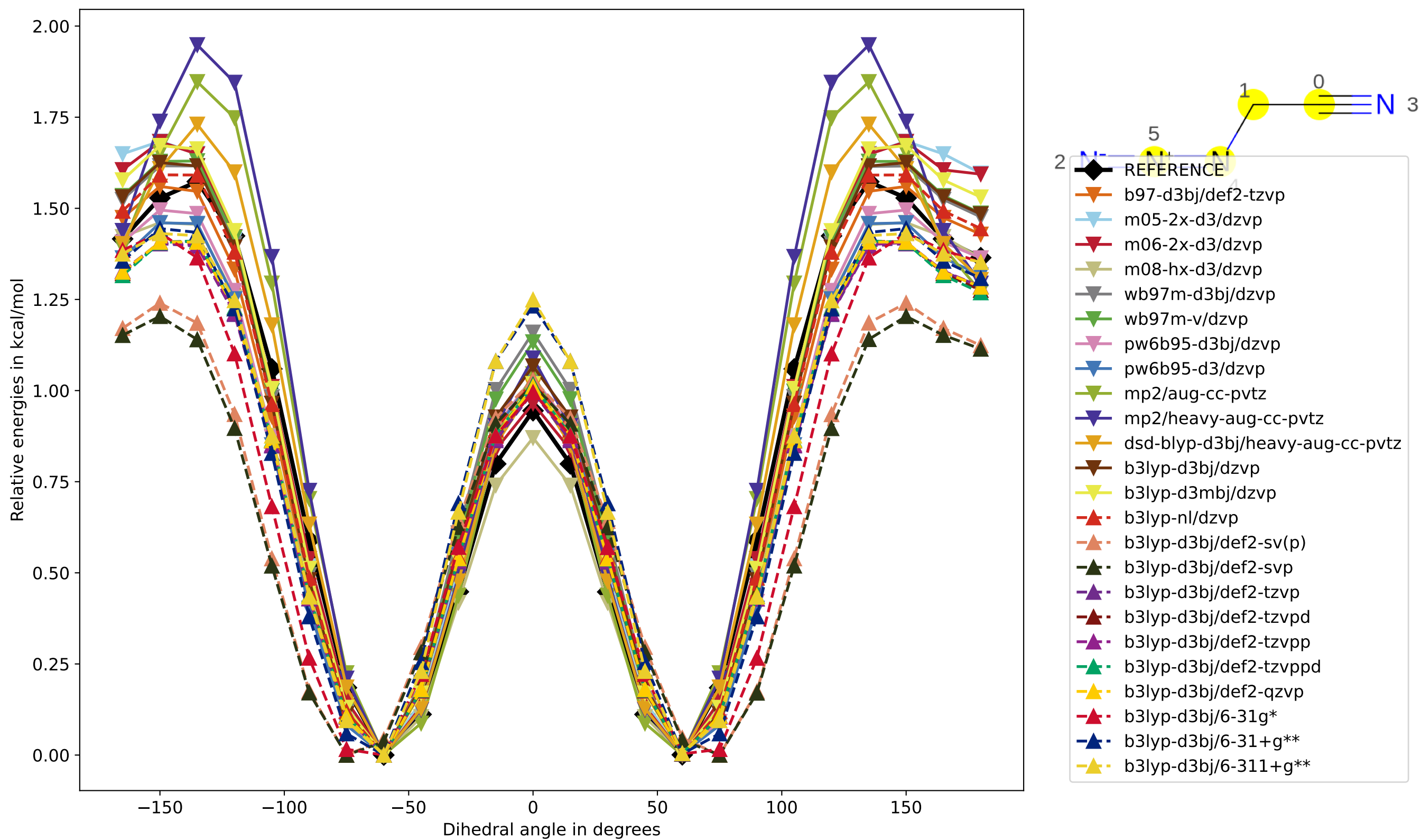
Neutral molecule



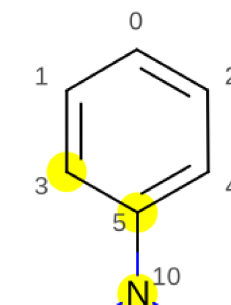
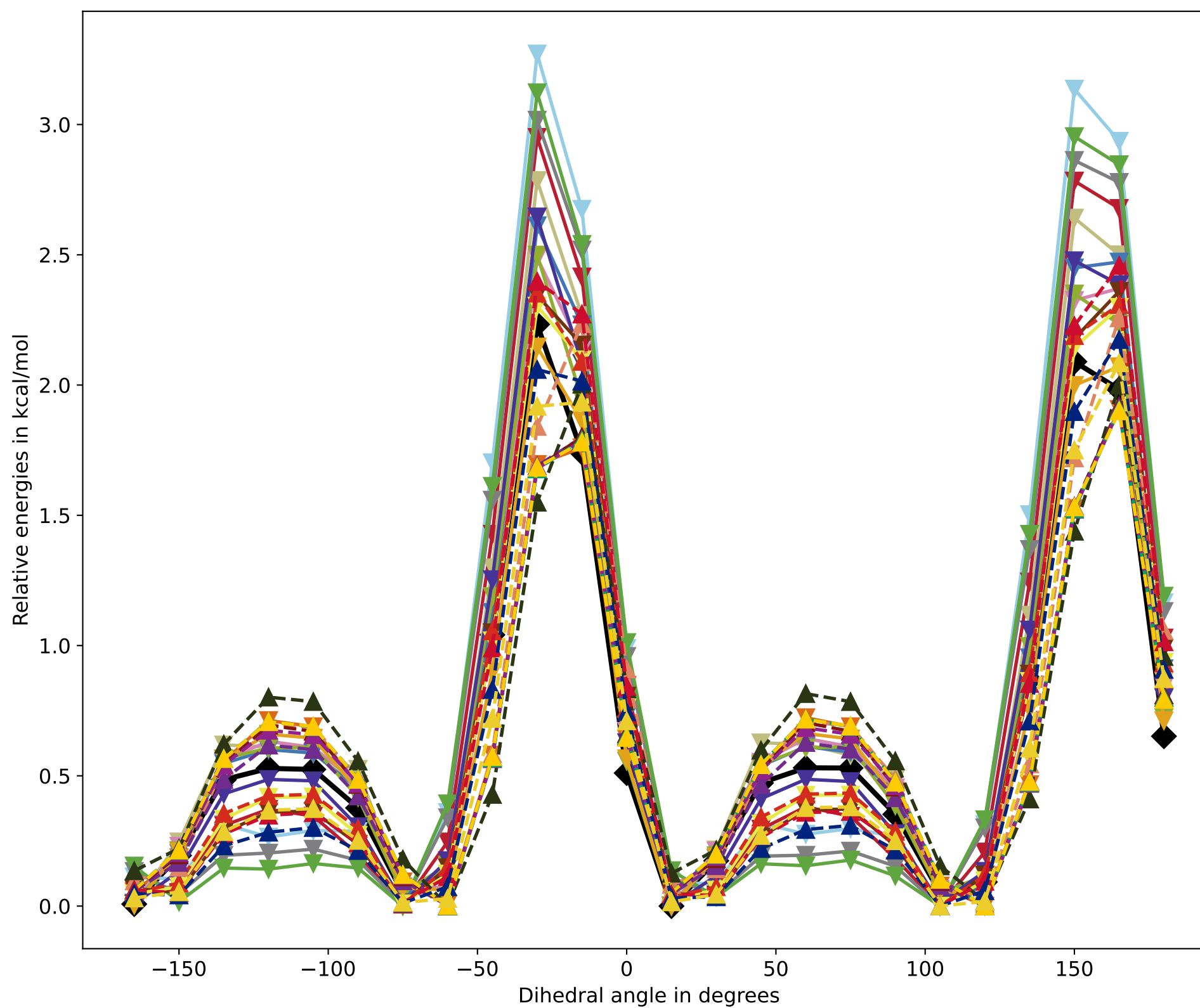
Neutral molecule



- REFERENCE
- b97-d3bj/def2-tzvp
- m05-2x-d3/dzvp
- m06-2x-d3/dzvp
- m08-hx-d3/dzvp
- wb97m-d3bj/dzvp
- wb97m-v/dzvp
- pw6b95-d3bj/dzvp
- pw6b95-d3/dzvp
- mp2/aug-cc-pvtz
- mp2/heavy-aug-cc-pvtz
- dsd-blyp-d3bj/heavy-aug-cc-pvtz
- b3lyp-d3bj/dzvp
- b3lyp-d3mbj/dzvp
- b3lyp-nl/dzvp
- b3lyp-d3bj/def2-sv(p)
- b3lyp-d3bj/def2-svp
- b3lyp-d3bj/def2-tzvp
- b3lyp-d3bj/def2-tzvppd
- b3lyp-d3bj/def2-tzvppp
- b3lyp-d3bj/def2-tzvppd
- b3lyp-d3bj/6-31g*
- b3lyp-d3bj/6-31+g**
- b3lyp-d3bj/6-311+g**

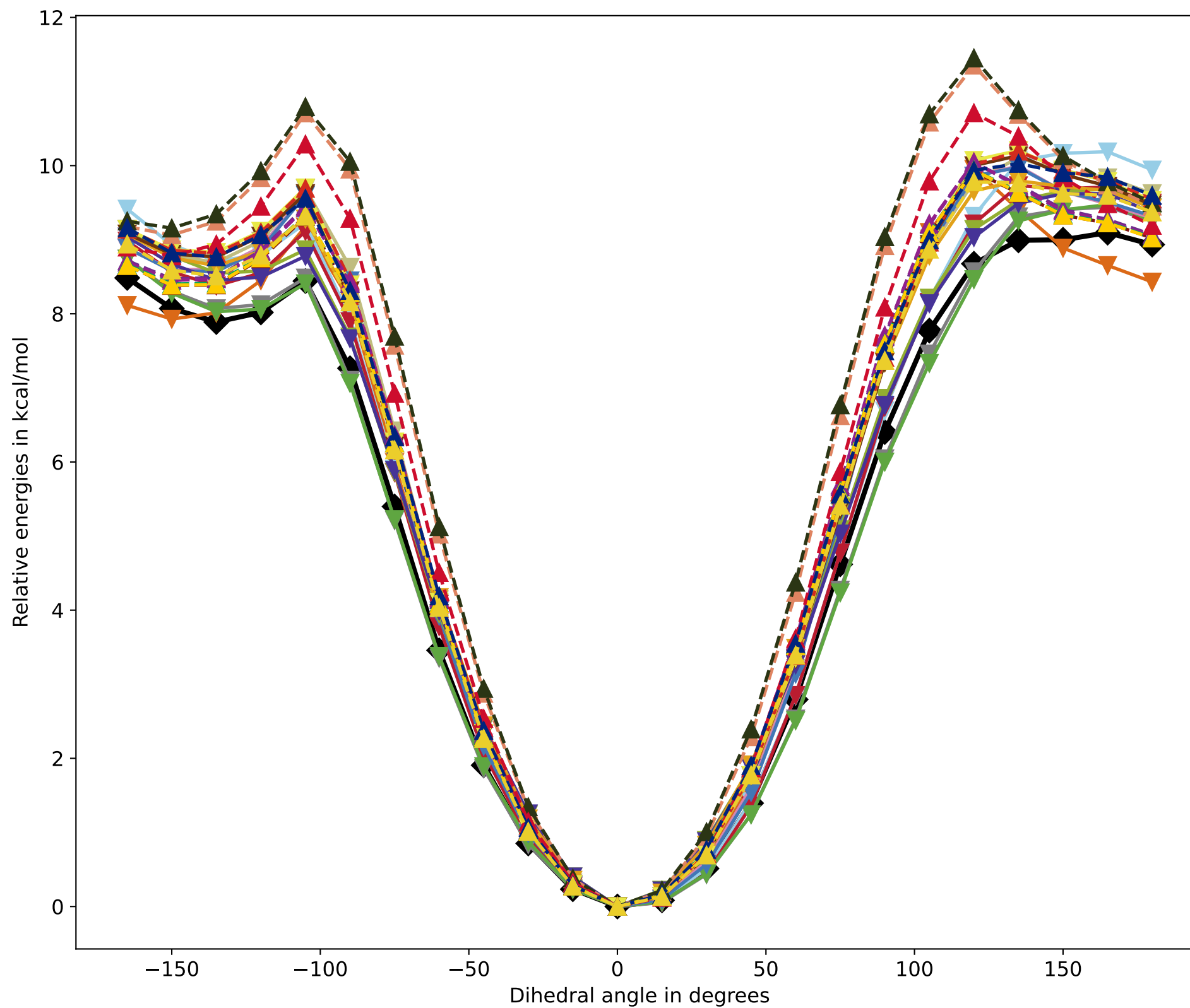


Charged molecule

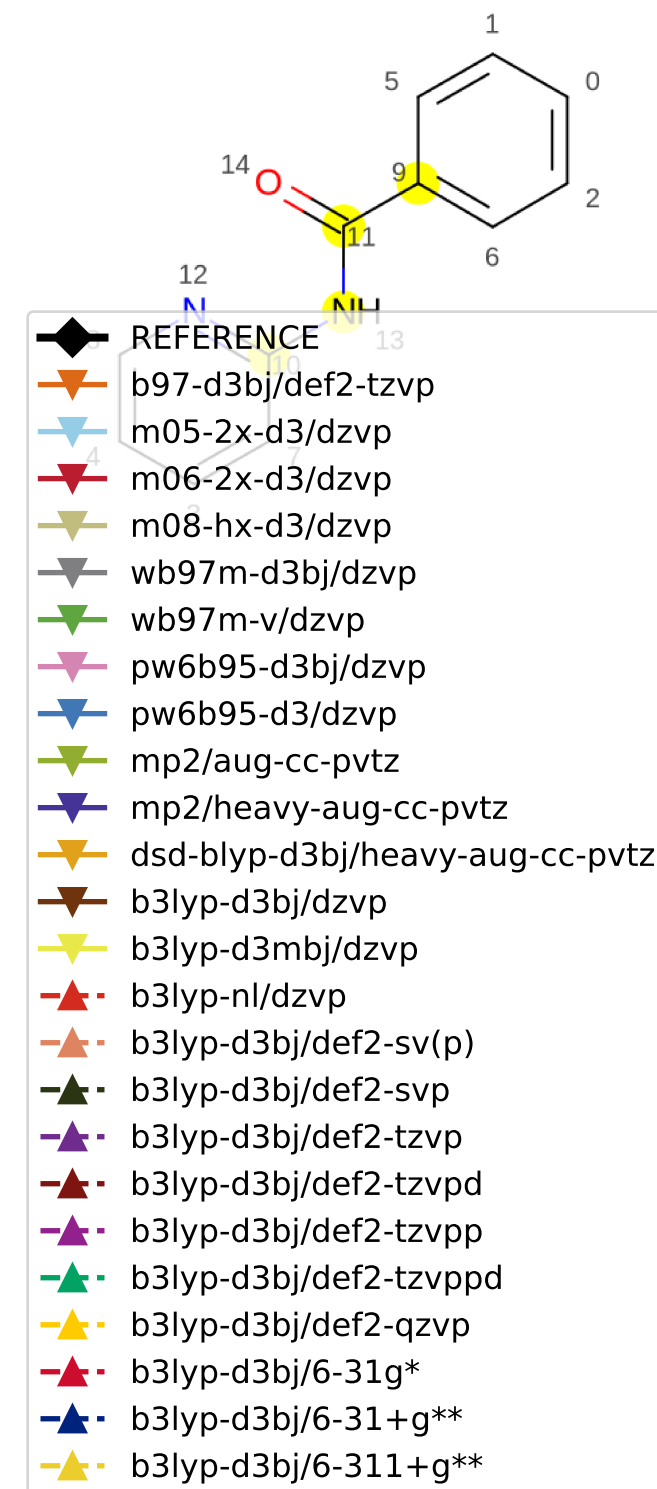
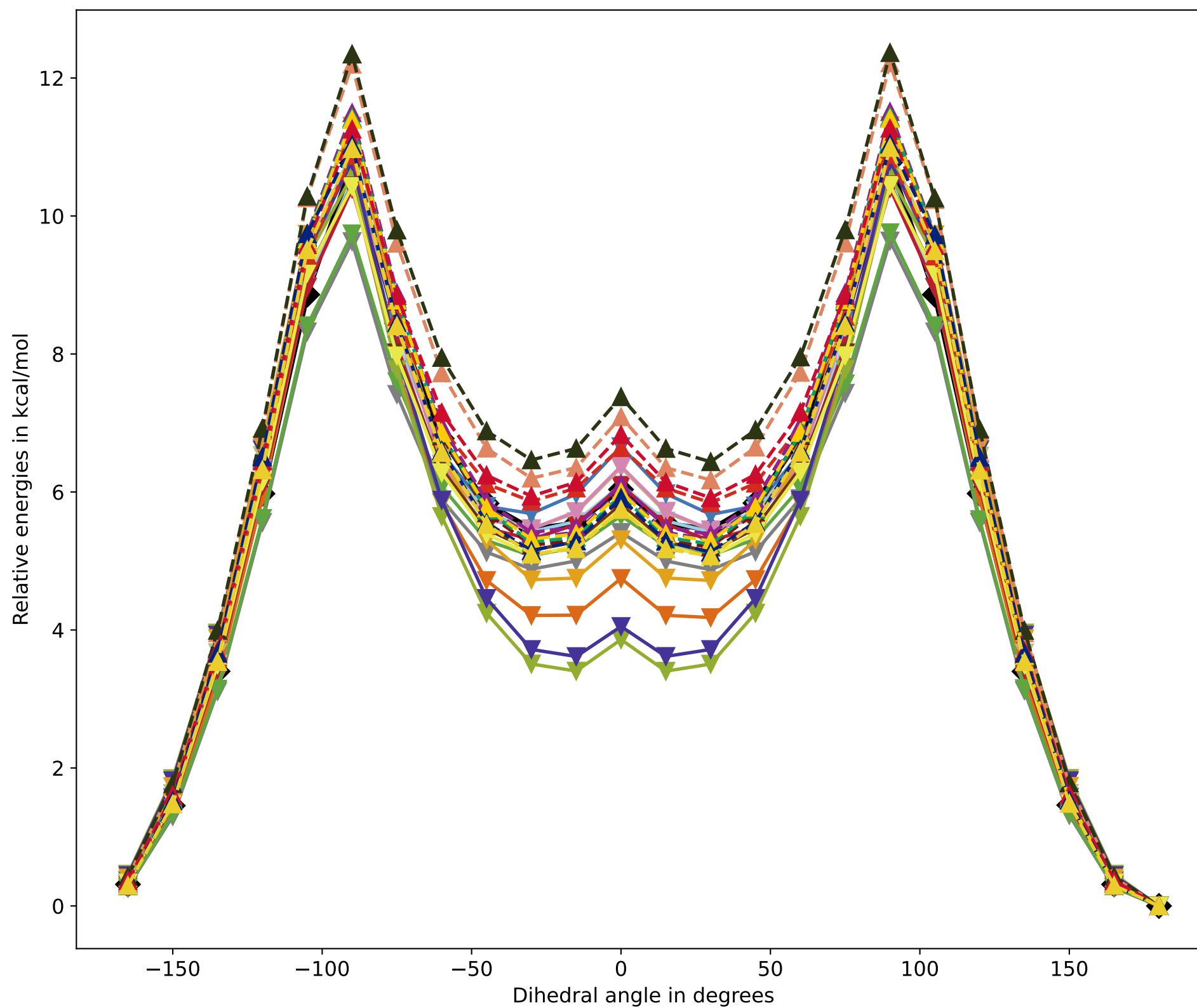


- REFERENCE
- b97-d3bj/def2-tzvp
- m05-2x-d3/dzvp
- m06-2x-d3/dzvp
- m08-hx-d3/dzvp
- wb97m-d3bj/dzvp
- wb97m-v/dzvp
- pw6b95-d3bj/dzvp
- pw6b95-d3/dzvp
- mp2/aug-cc-pvtz
- mp2/heavy-aug-cc-pvtz
- dsd-blyp-d3bj/heavy-aug-cc-pvtz
- b3lyp-d3bj/dzvp
- b3lyp-d3mbj/dzvp
- b3lyp-nl/dzvp
- b3lyp-d3bj/def2-sv(p)
- b3lyp-d3bj/def2-svp
- b3lyp-d3bj/def2-tzvp
- b3lyp-d3bj/def2-tzvppd
- b3lyp-d3bj/def2-tzvpp
- b3lyp-d3bj/def2-tzvppd
- b3lyp-d3bj/def2-qzvpp
- b3lyp-d3bj/6-31g*
- b3lyp-d3bj/6-31+g**
- b3lyp-d3bj/6-311+g**

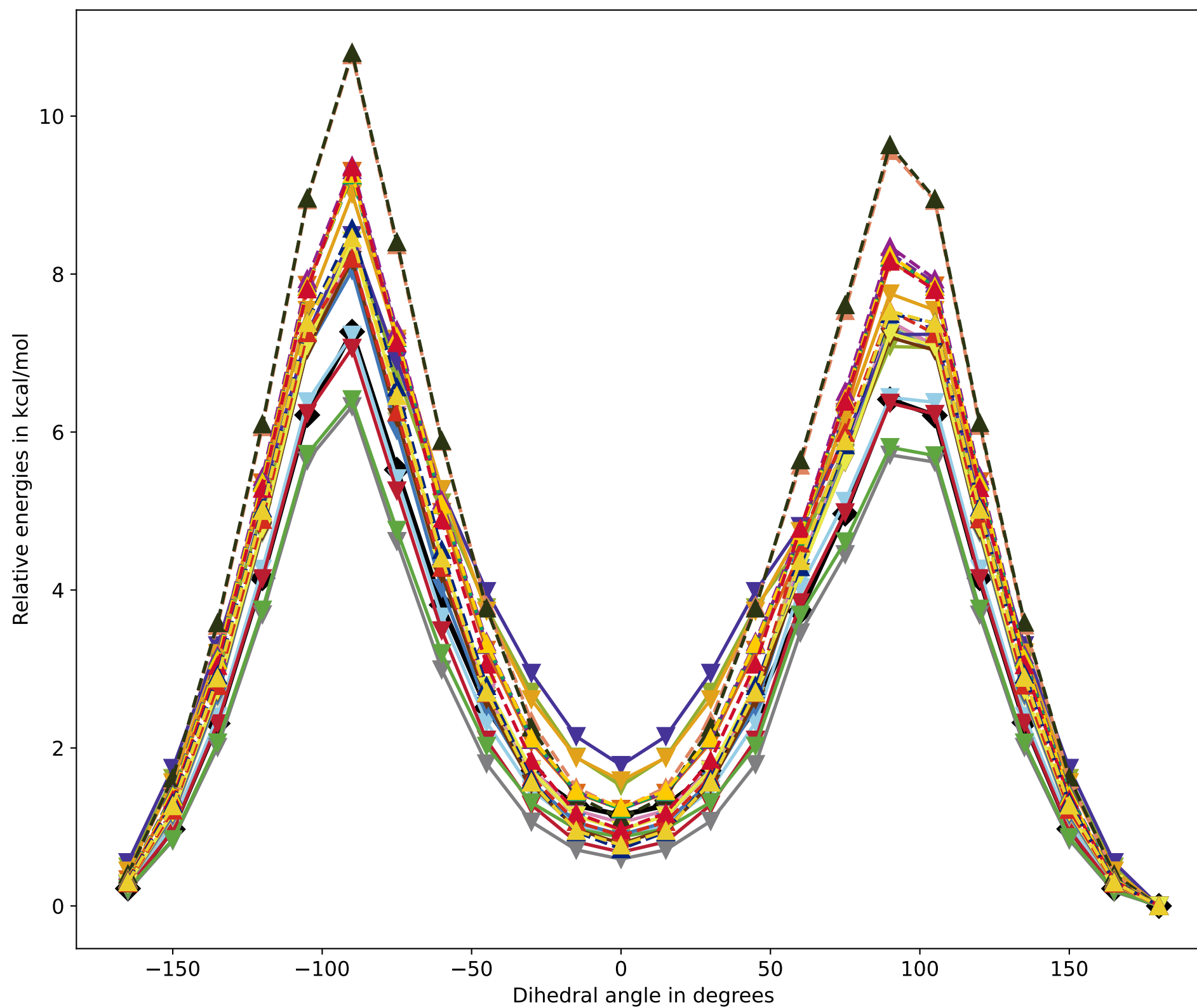
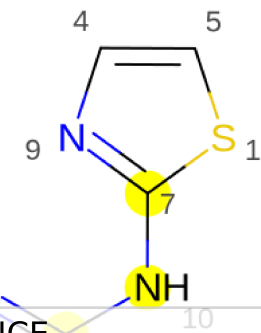
Neutral molecule



Neutral molecule

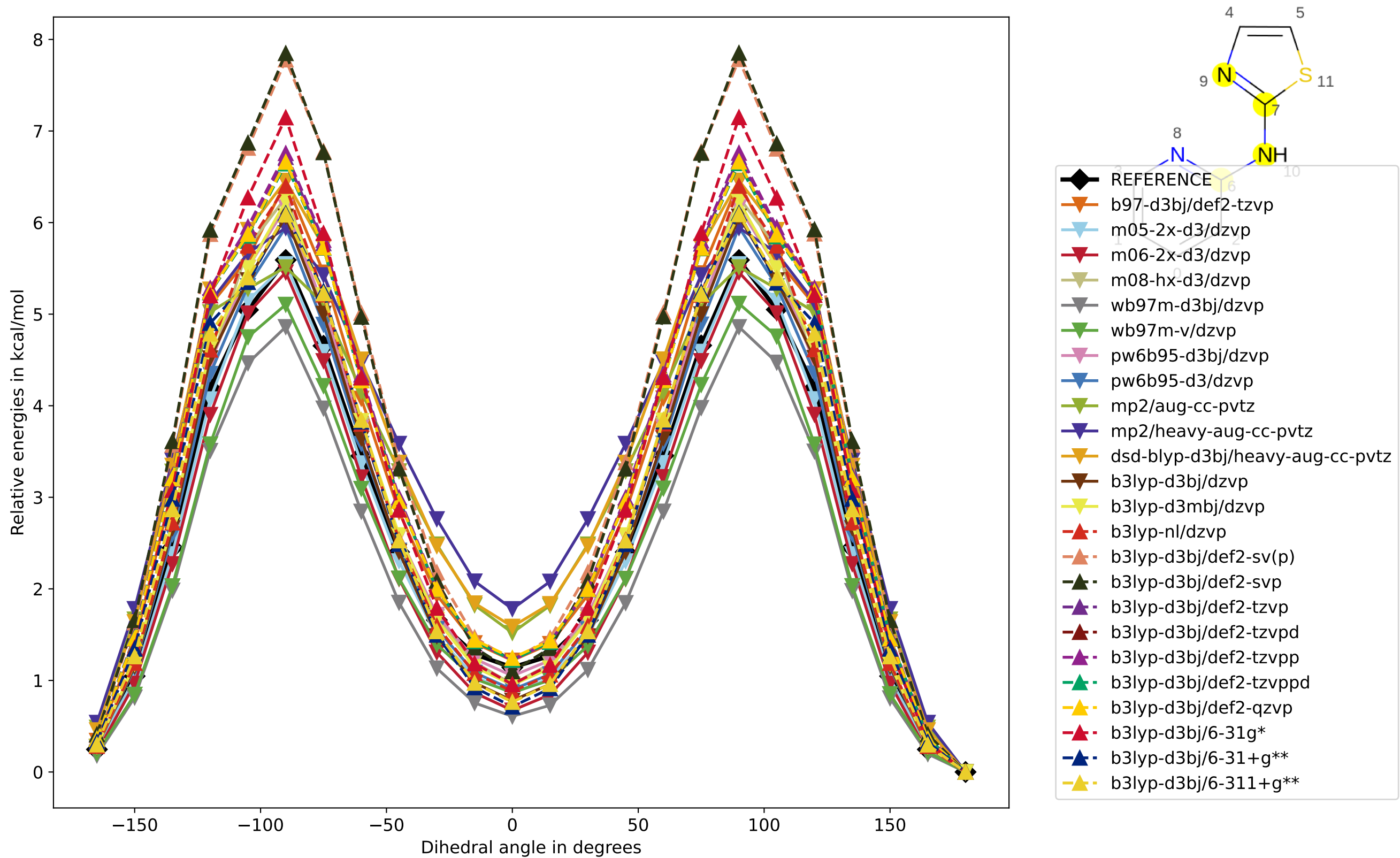


Neutral molecule

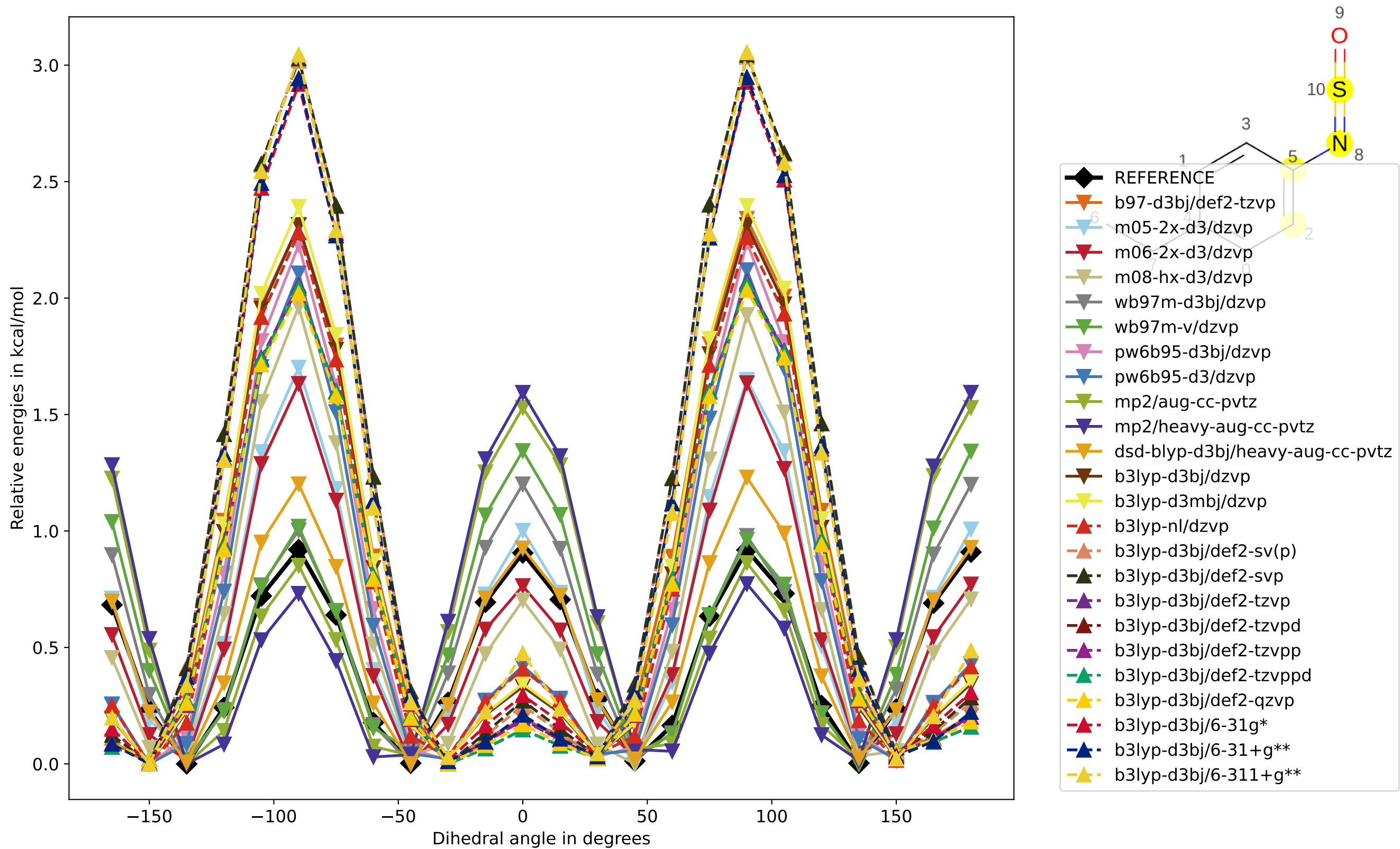


- REFERENCE
- b97-d3bj/def2-tzvp
- m05-2x-d3/dzvp
- m06-2x-d3/dzvp
- m08-hx-d3/dzvp
- wb97m-d3bj/dzvp
- wb97m-v/dzvp
- pw6b95-d3bj/dzvp
- pw6b95-d3/dzvp
- mp2/aug-cc-pvtz
- mp2/heavy-aug-cc-pvtz
- dsd-blyp-d3bj/heavy-aug-cc-pvtz
- b3lyp-d3bj/dzvp
- b3lyp-d3mbj/dzvp
- b3lyp-nl/dzvp
- b3lyp-d3bj/def2-sv(p)
- b3lyp-d3bj/def2-svp
- b3lyp-d3bj/def2-tzvp
- b3lyp-d3bj/def2-tzvppd
- b3lyp-d3bj/def2-tzvppp
- b3lyp-d3bj/def2-tzvppd
- b3lyp-d3bj/def2-qzvpp
- b3lyp-d3bj/6-31g*
- b3lyp-d3bj/6-31+g**
- b3lyp-d3bj/6-311+g**

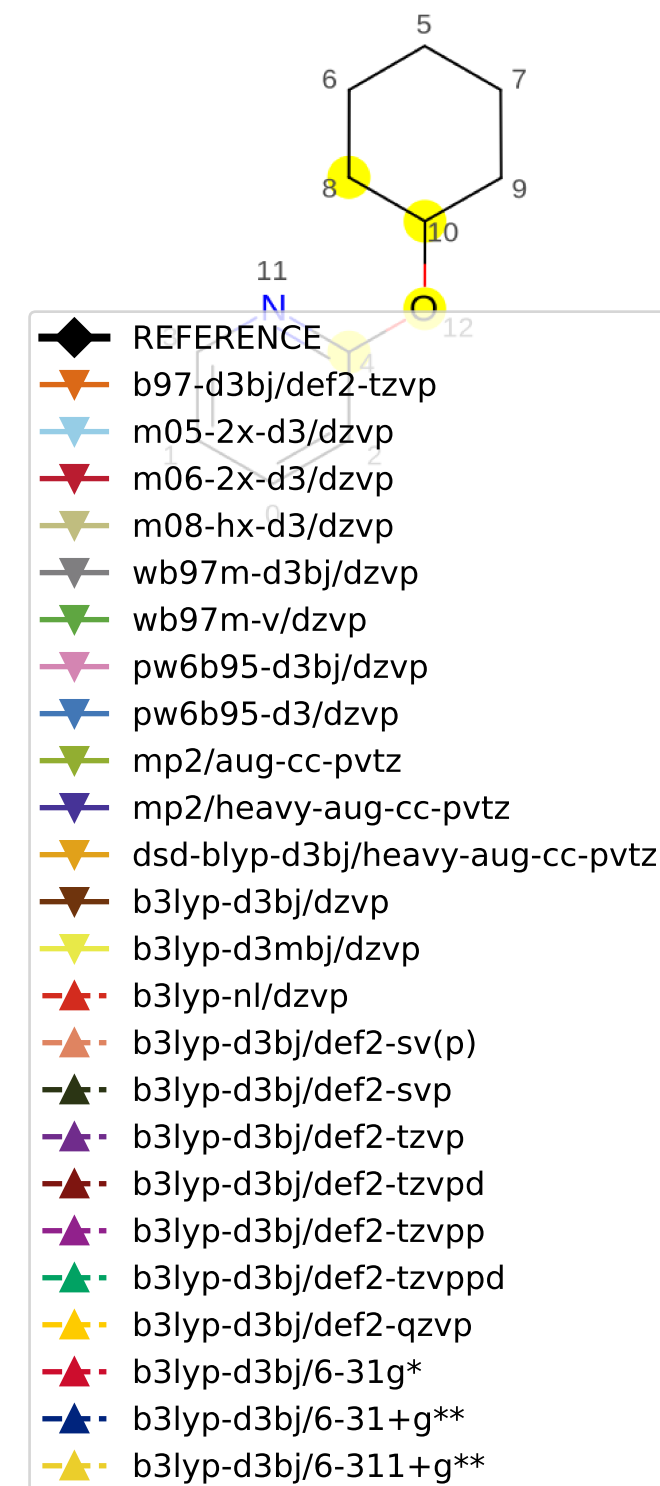
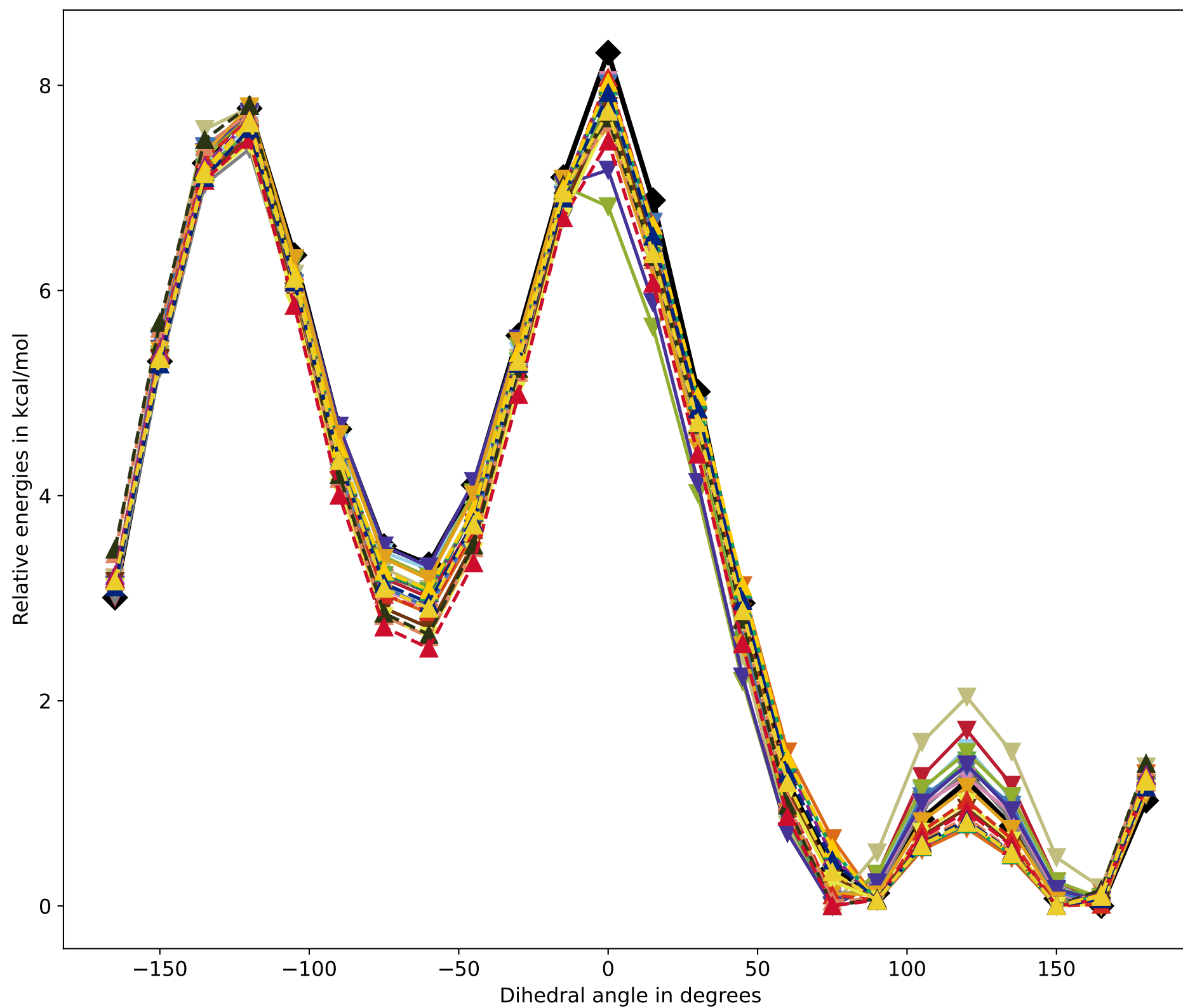
Neutral molecule



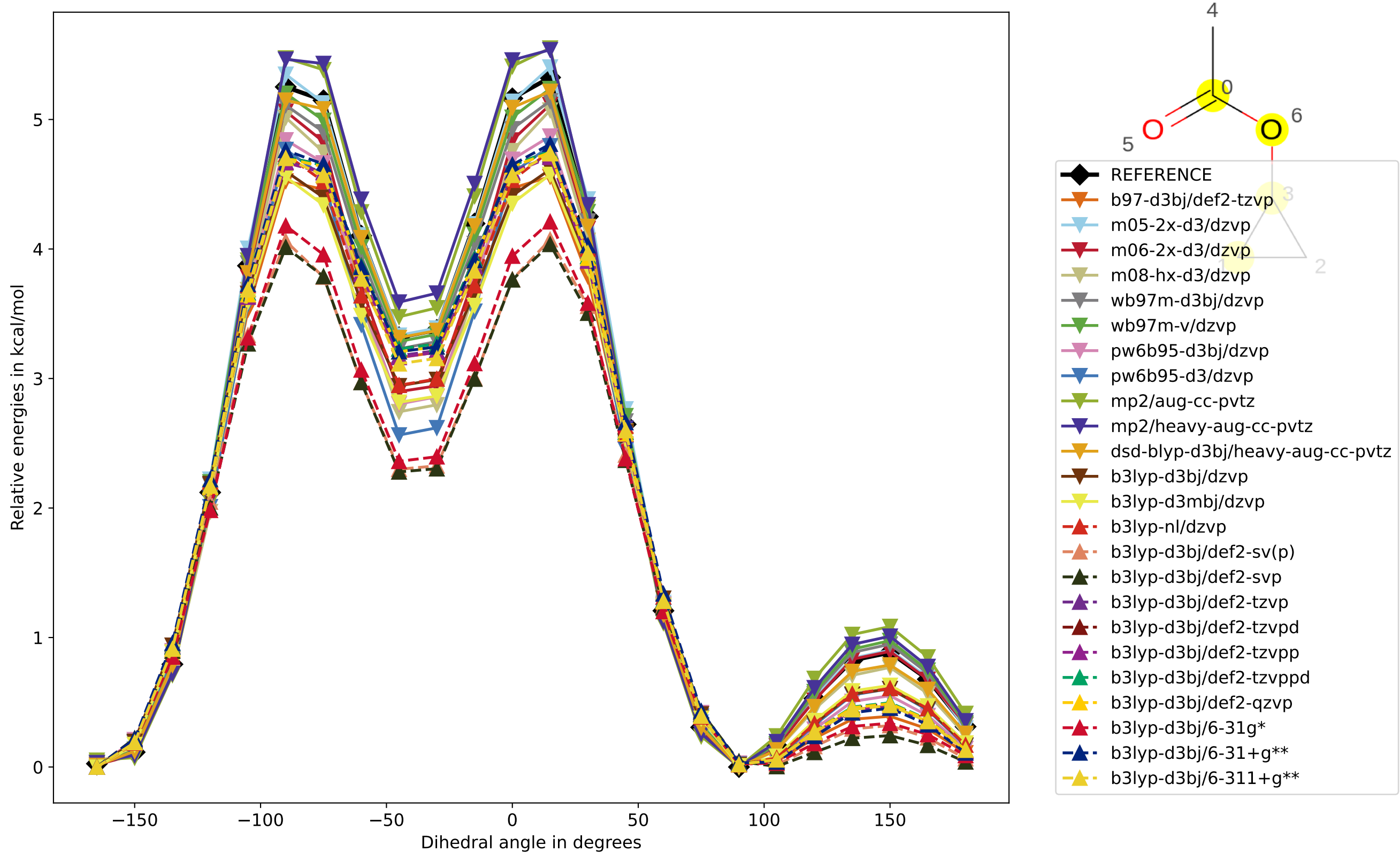
Neutral molecule



Neutral molecule

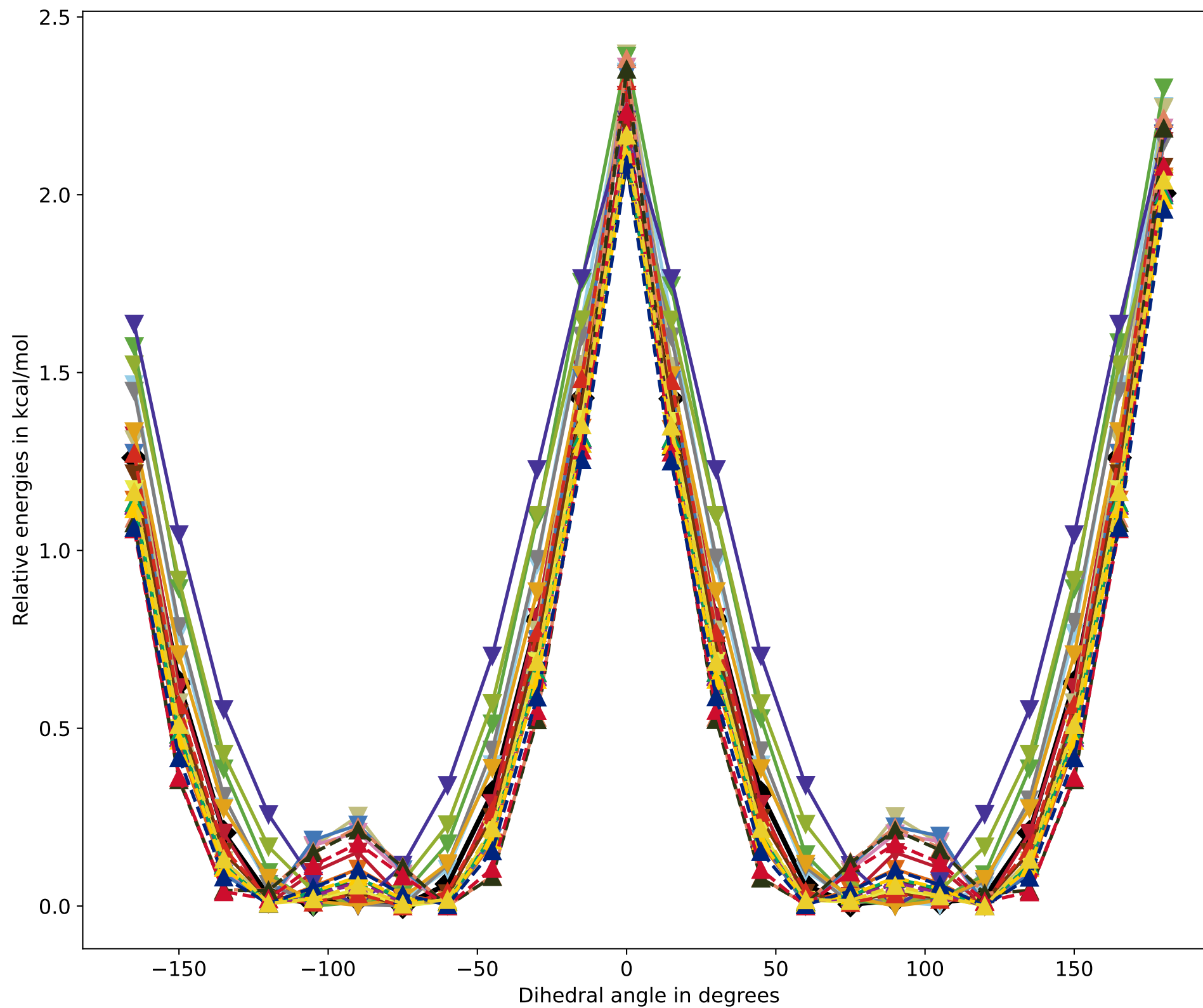


Neutral molecule

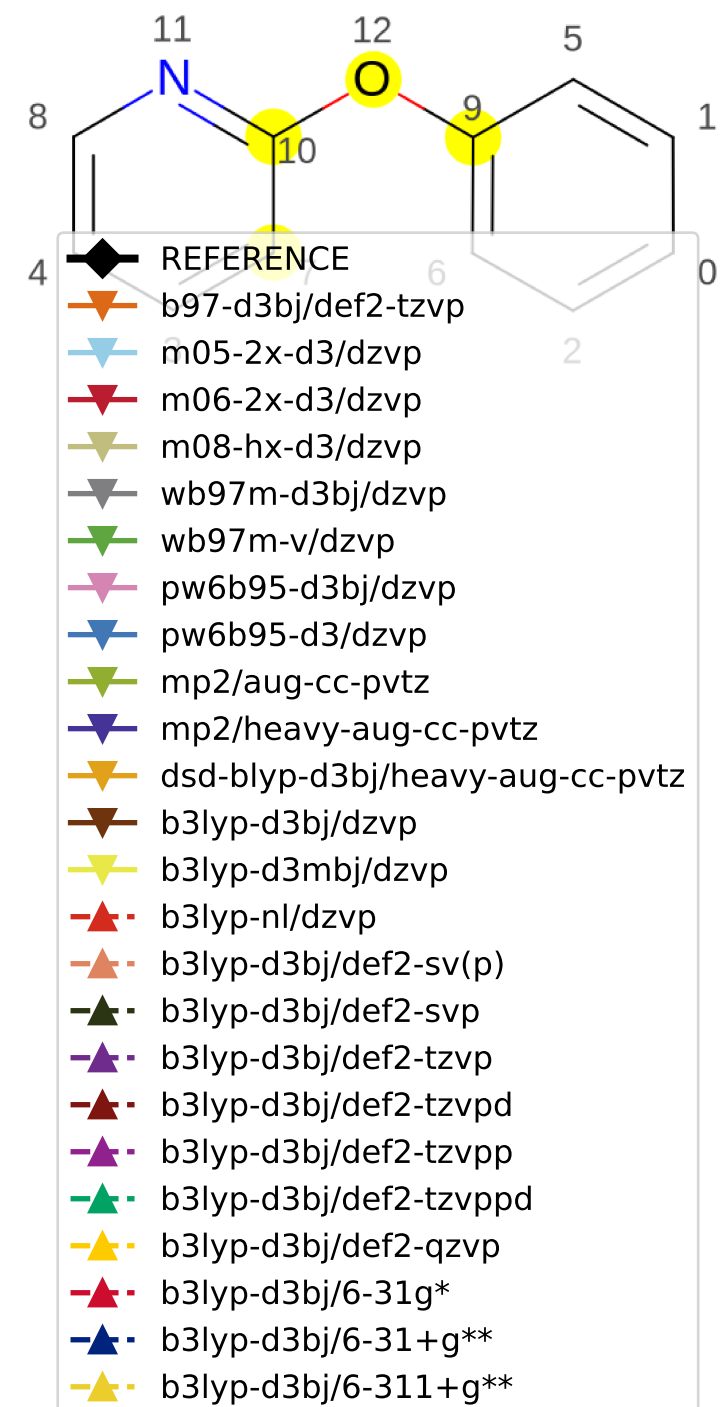
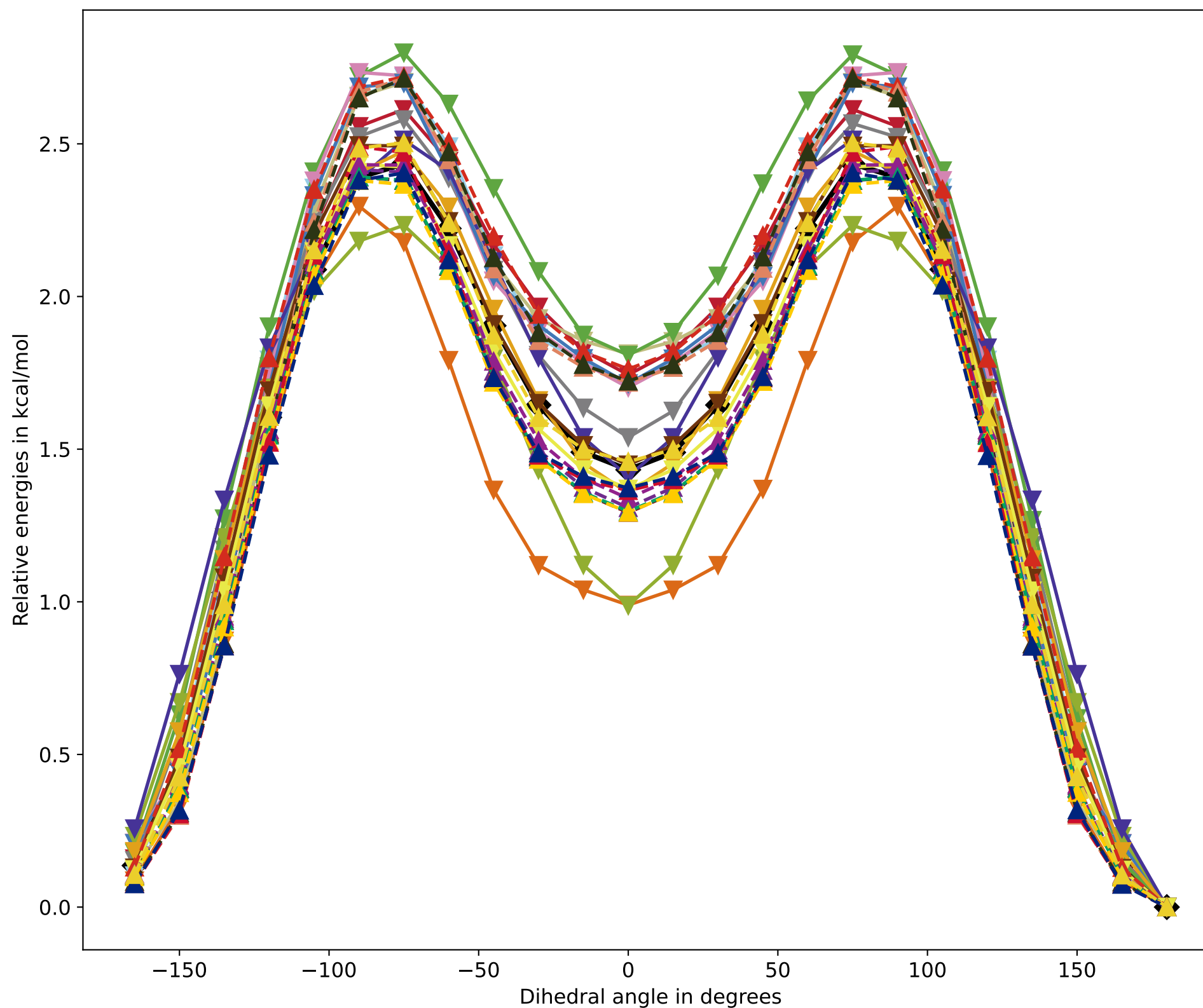


Chemical structure of 1,2-dicyanobenzene (benzene ring with two cyano groups). The structure is labeled with atom numbers 1 through 12. The legend indicates the basis sets used for different atoms:

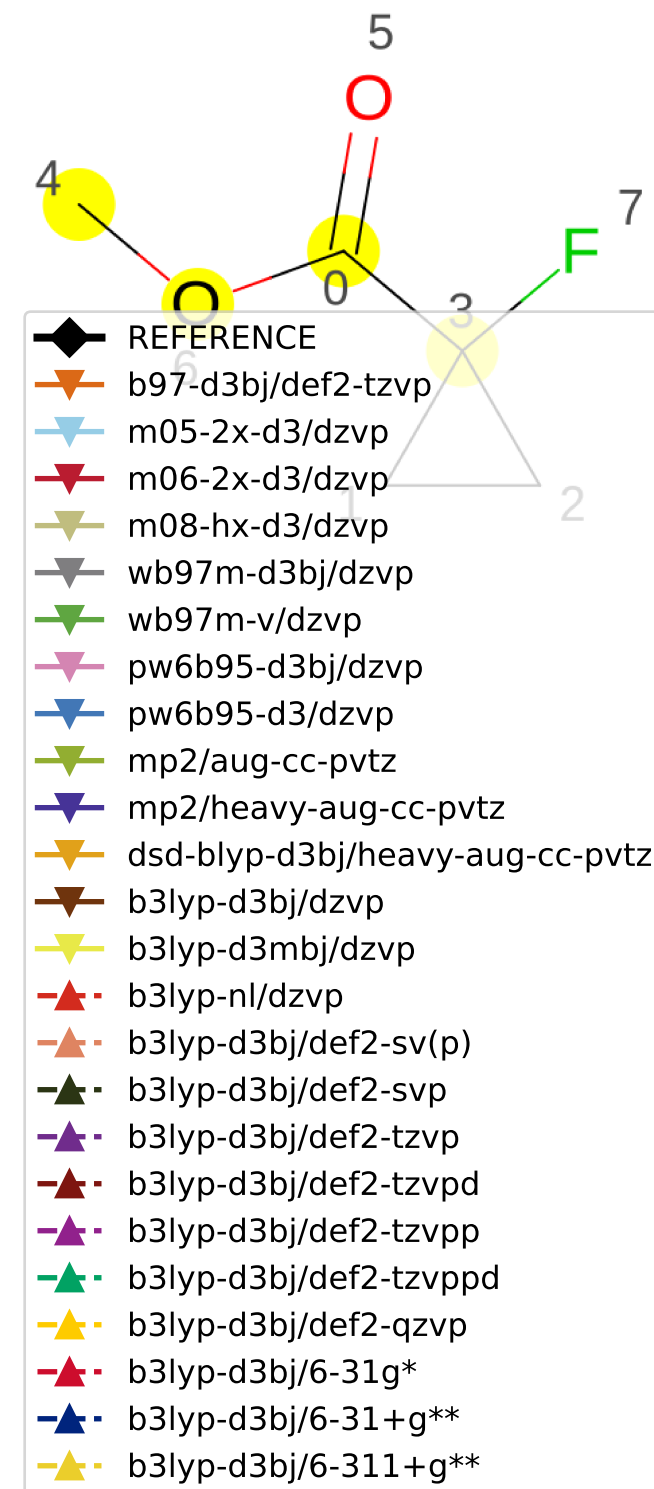
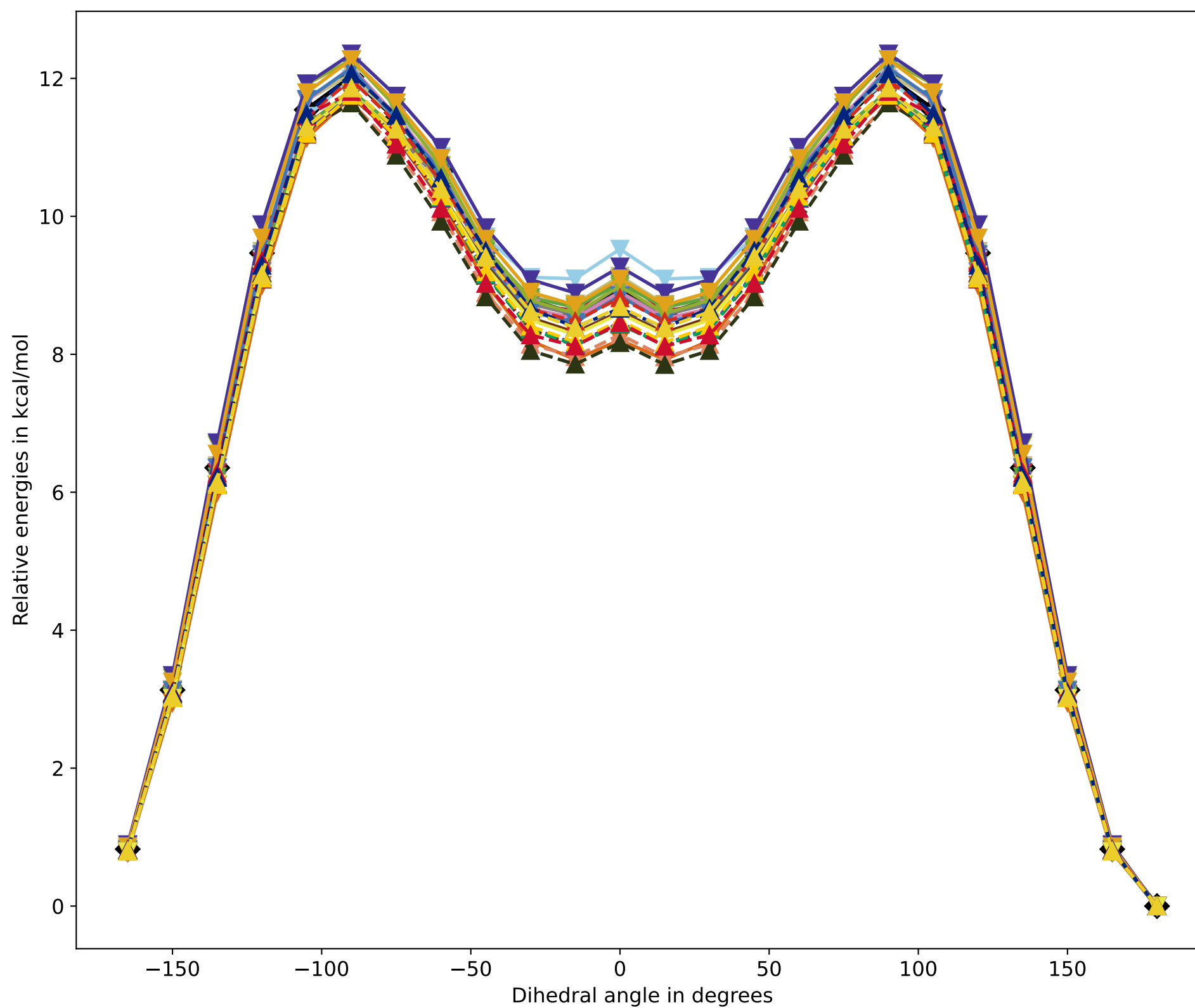
- REFERENCE (black diamond)
- b97-d3bj/def2-tzvp (orange triangle)
- m05-2x-d3/dzvp (blue triangle)



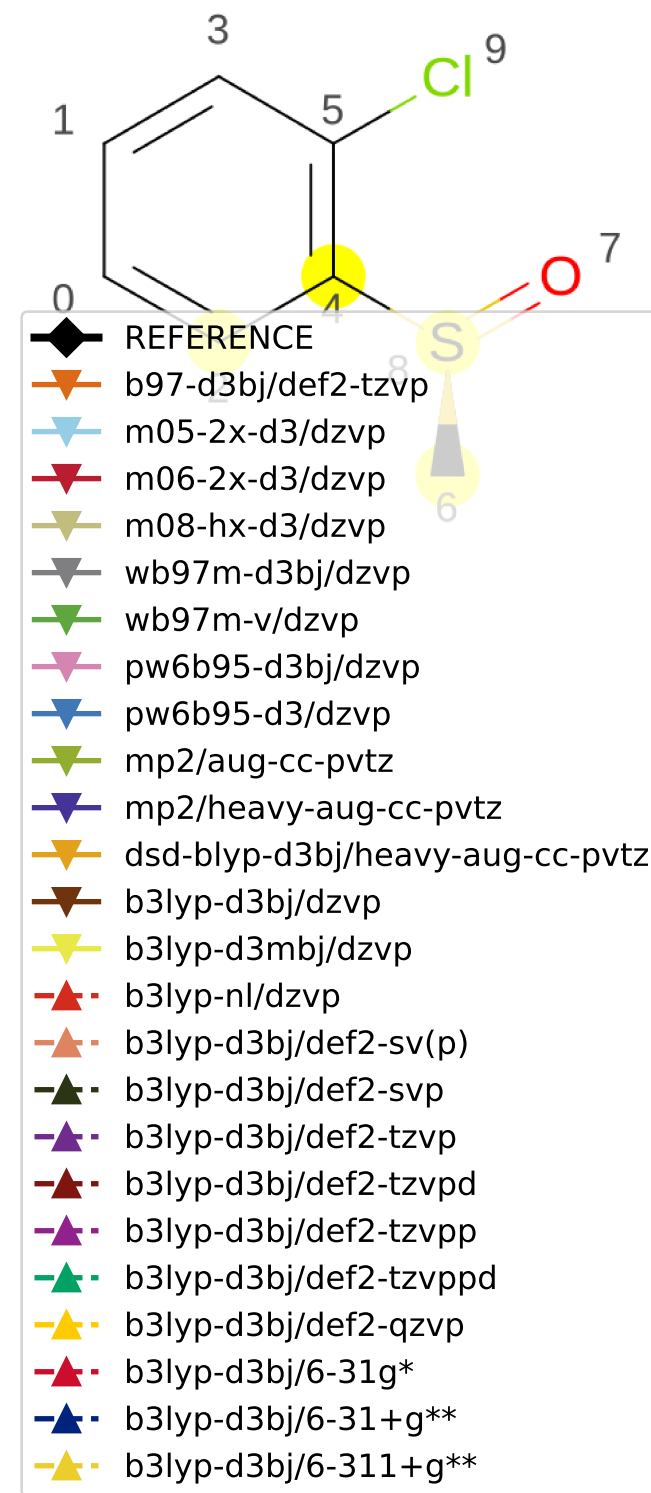
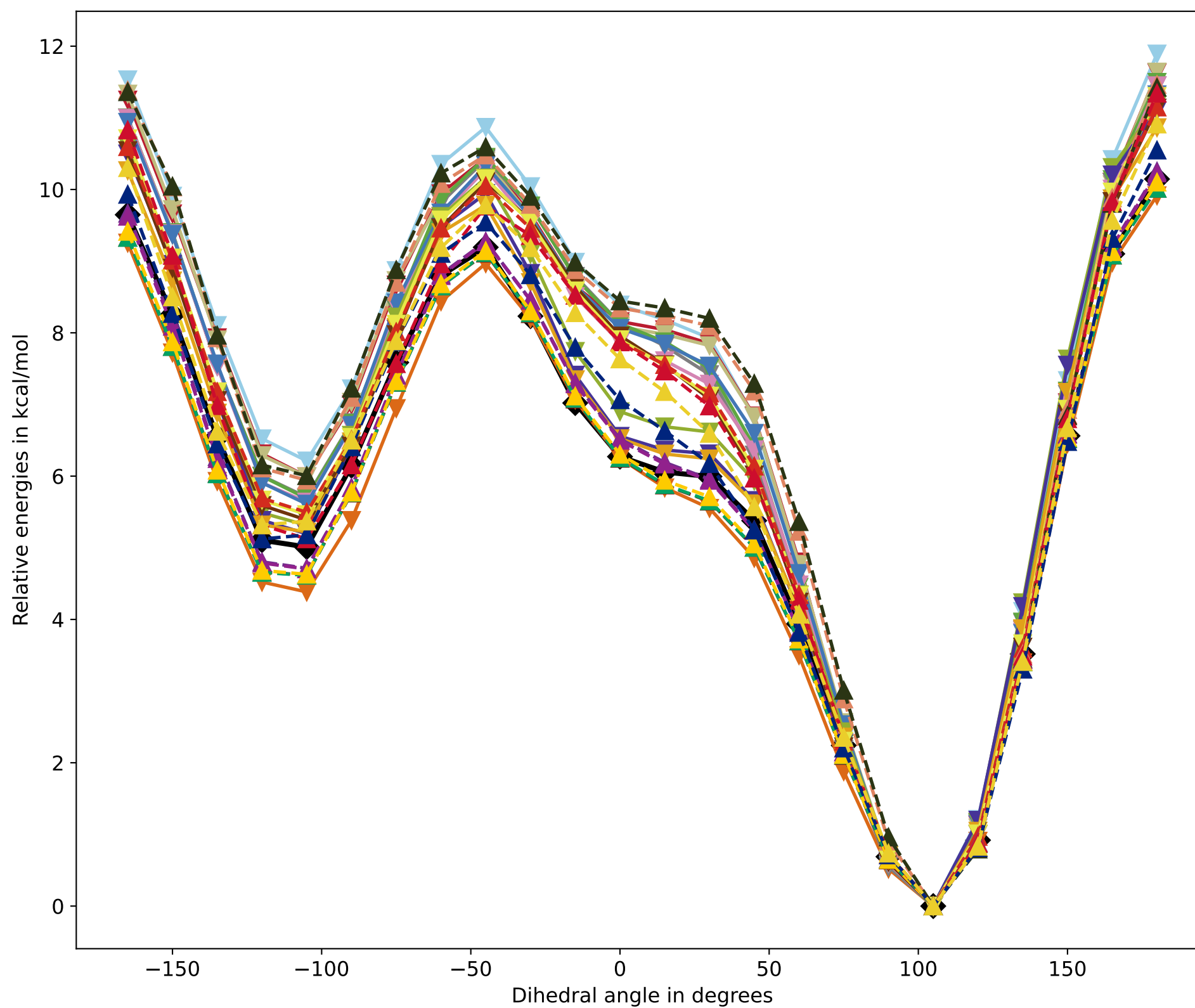
Neutral molecule

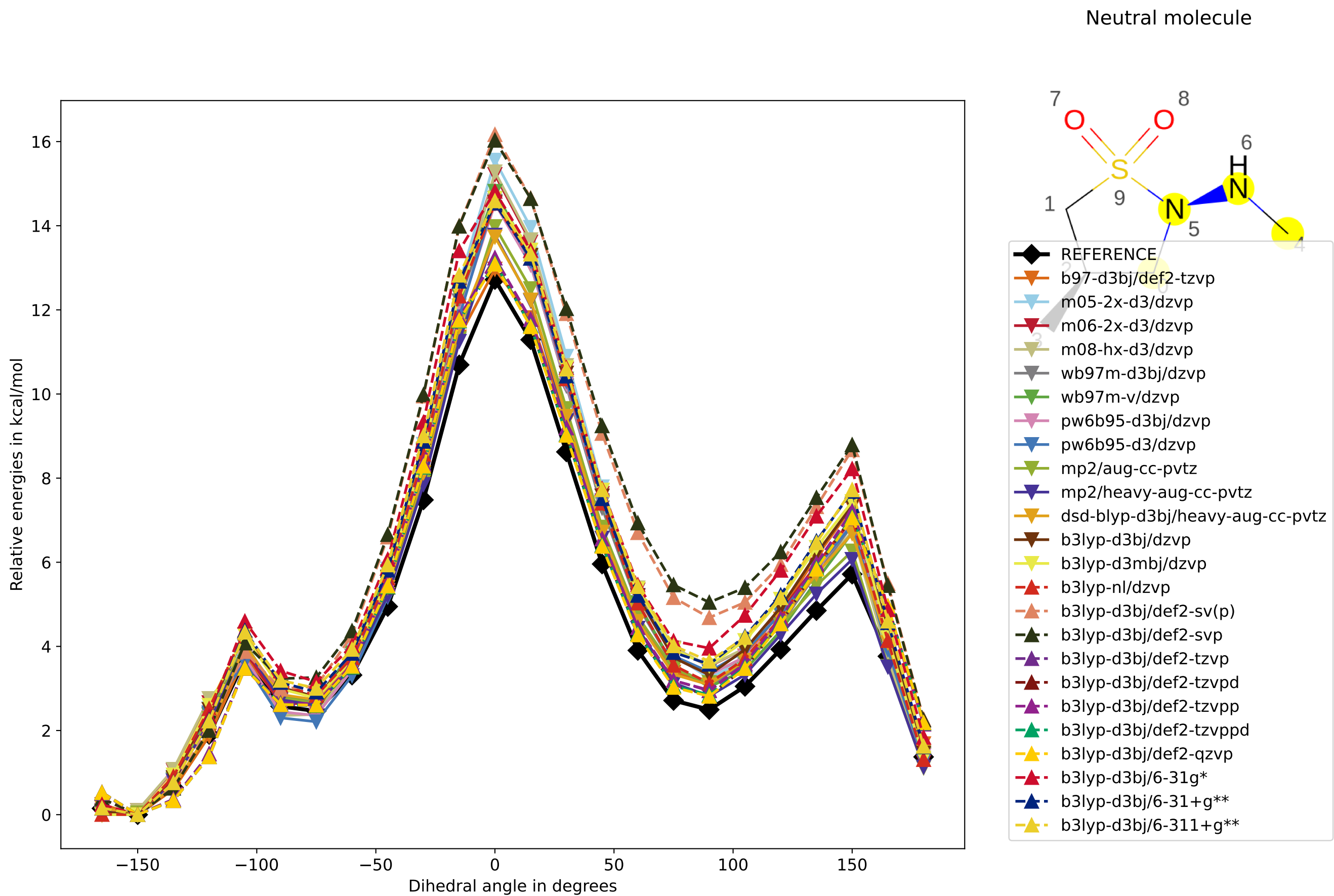


Neutral molecule

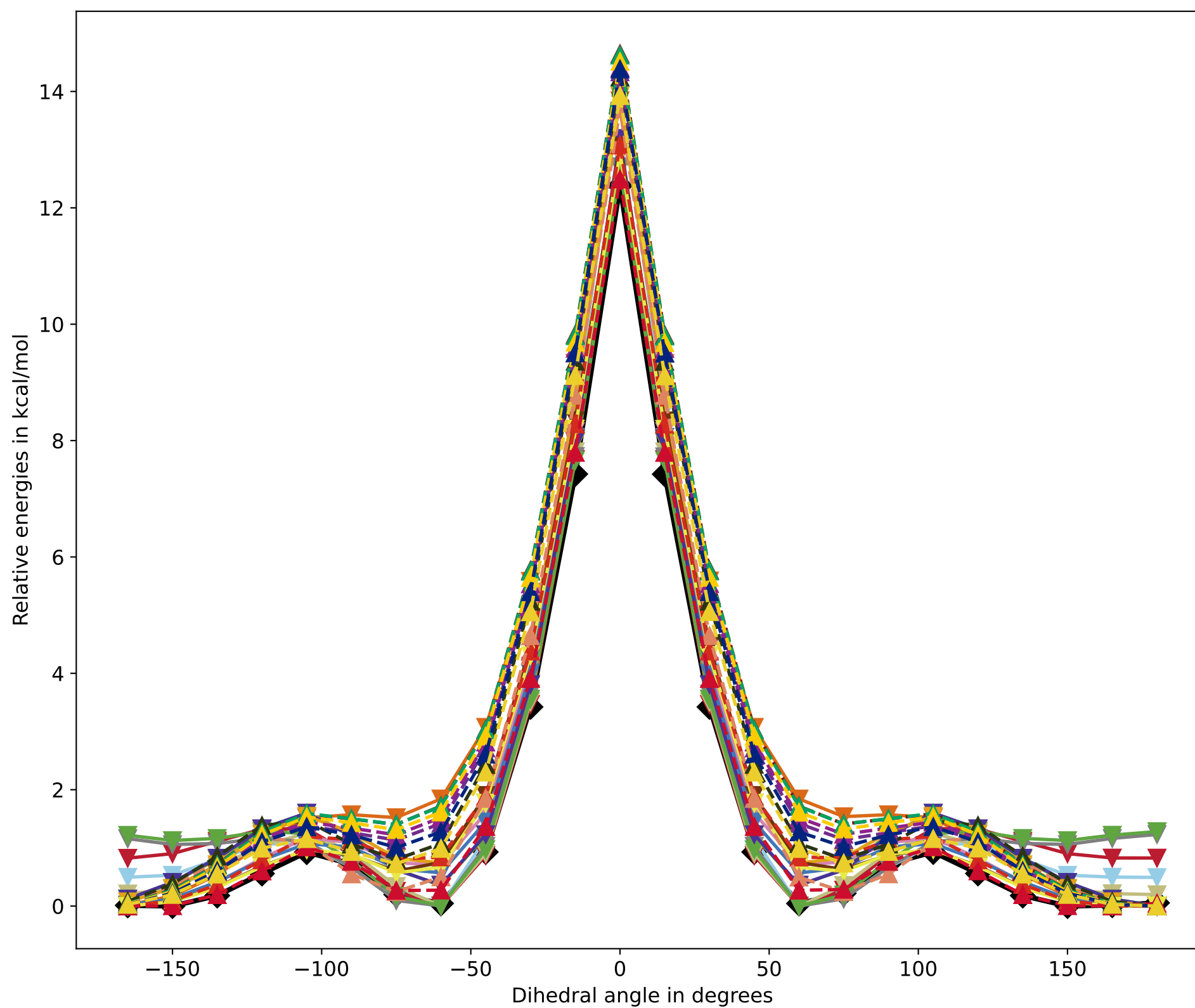
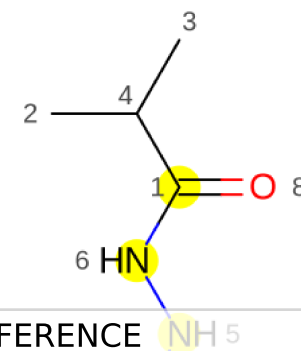


Neutral molecule



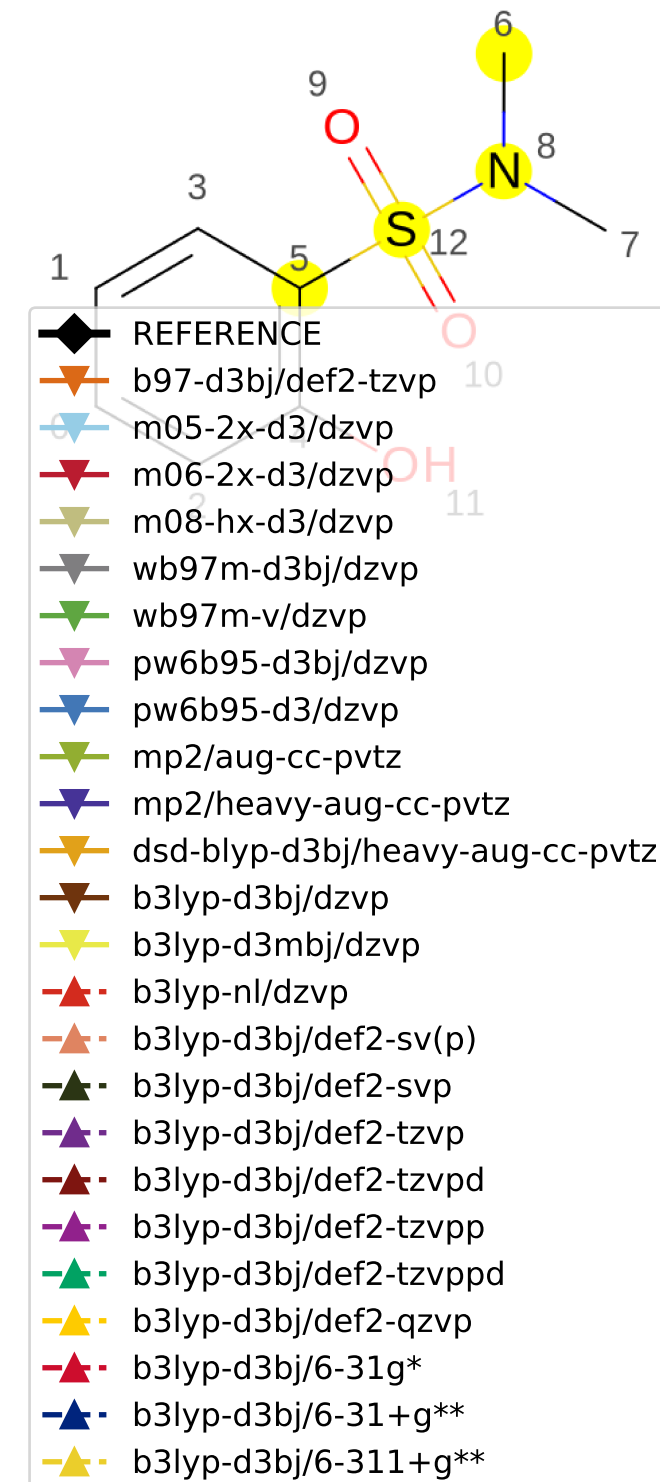
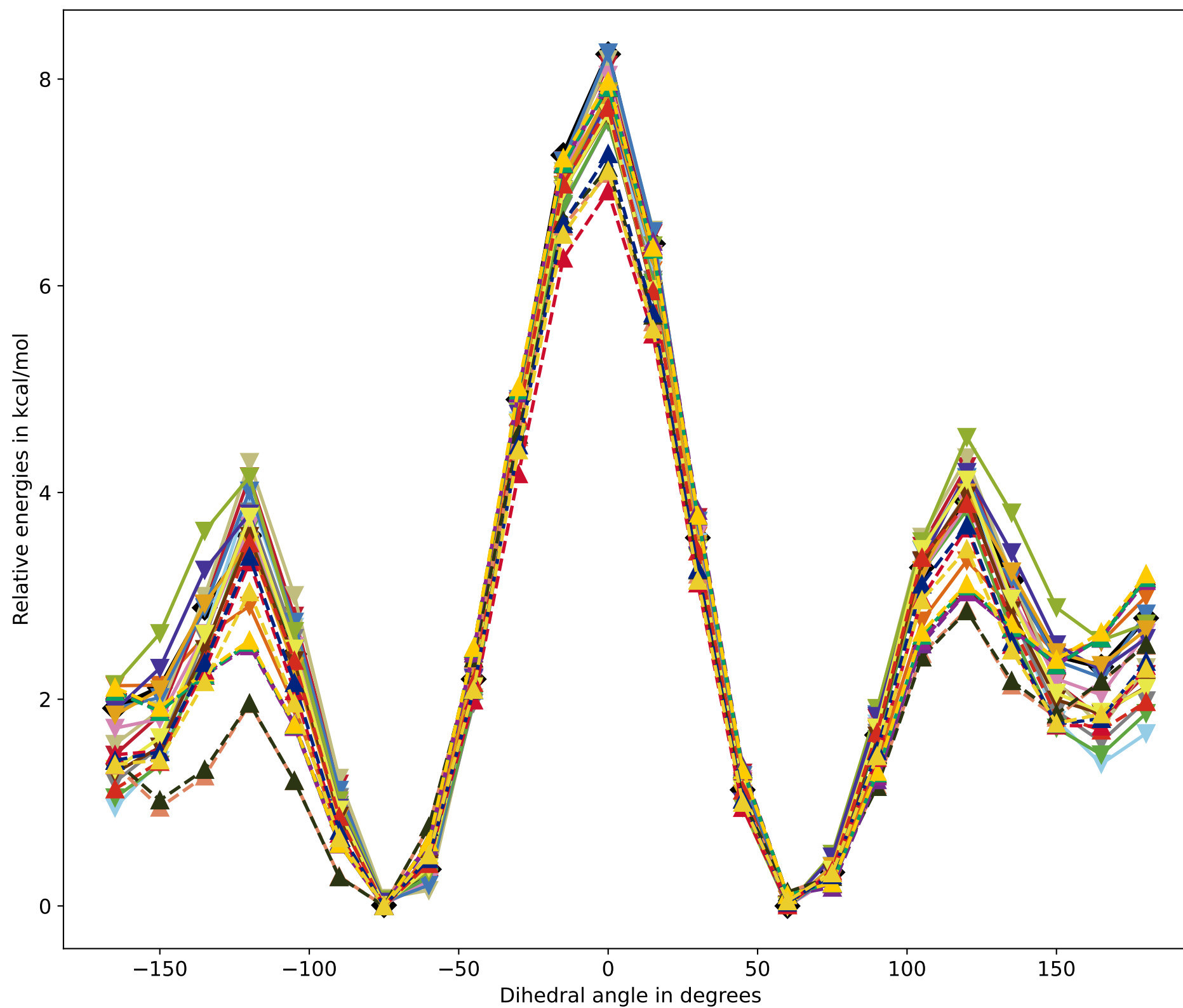


Neutral molecule

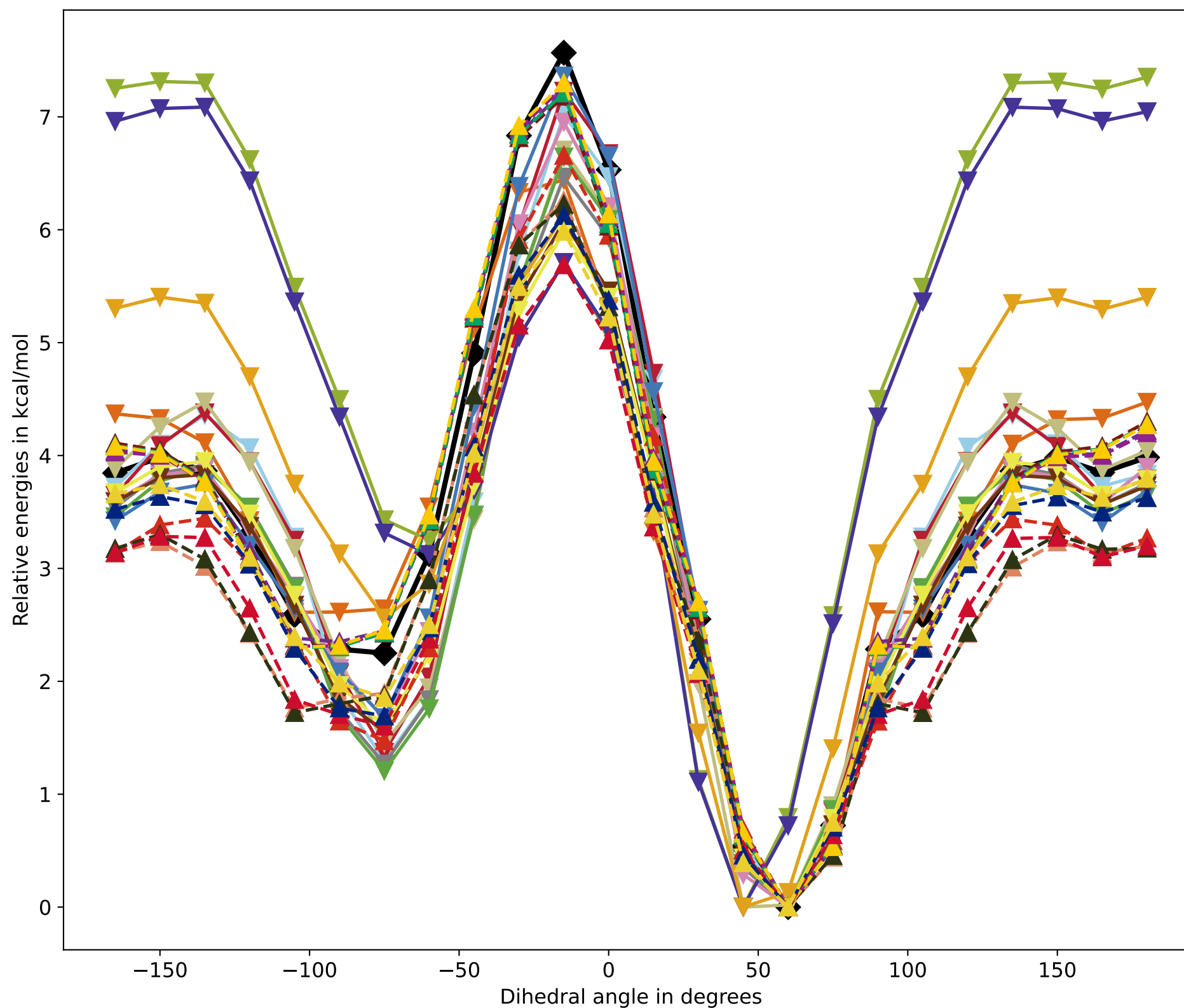
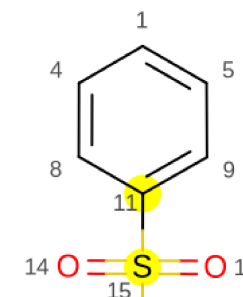


- REFERENCE
- b97-d3bj/def2-tzvp
- m05-2x-d3/dzvp
- m06-2x-d3/dzvp
- m08-hx-d3/dzvp
- wb97m-d3bj/dzvp
- wb97m-v/dzvp
- pw6b95-d3bj/dzvp
- pw6b95-d3/dzvp
- mp2/aug-cc-pvtz
- mp2/heavy-aug-cc-pvtz
- dsd-blyp-d3bj/heavy-aug-cc-pvtz
- b3lyp-d3bj/dzvp
- b3lyp-d3mbj/dzvp
- b3lyp-nl/dzvp
- b3lyp-d3bj/def2-sv(p)
- b3lyp-d3bj/def2-svp
- b3lyp-d3bj/def2-tzvp
- b3lyp-d3bj/def2-tzvppd
- b3lyp-d3bj/def2-tzvpp
- b3lyp-d3bj/def2-tzvppd
- b3lyp-d3bj/6-31g*
- b3lyp-d3bj/6-31+g**
- b3lyp-d3bj/6-311+g**

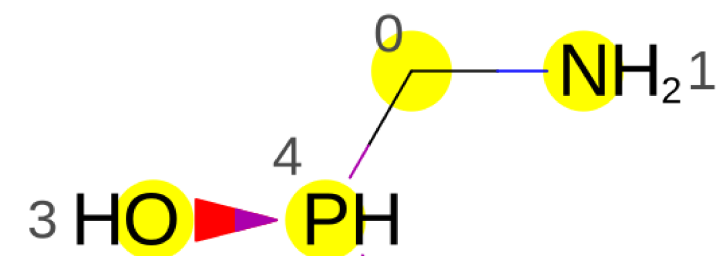
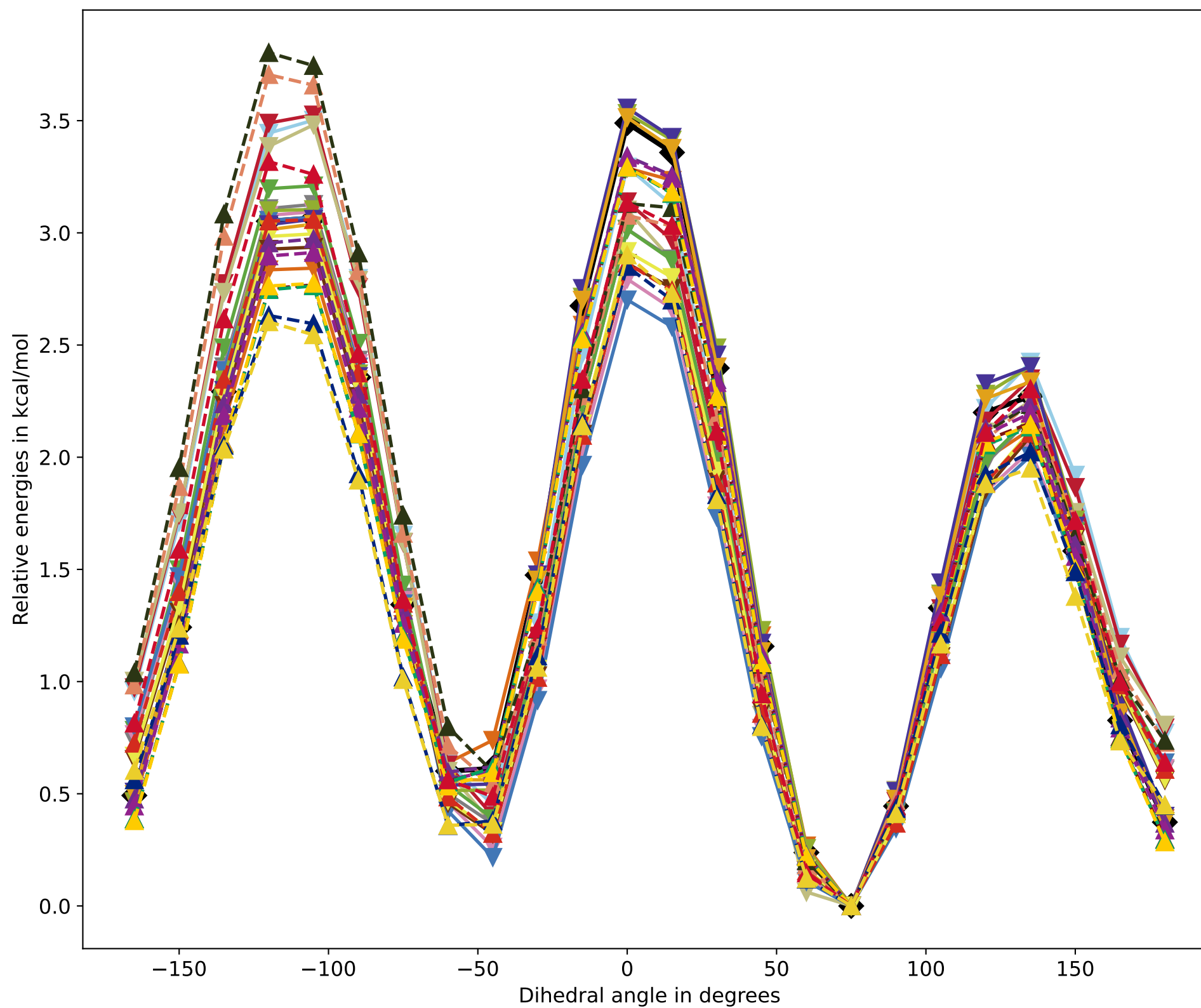
Neutral molecule



Neutral molecule

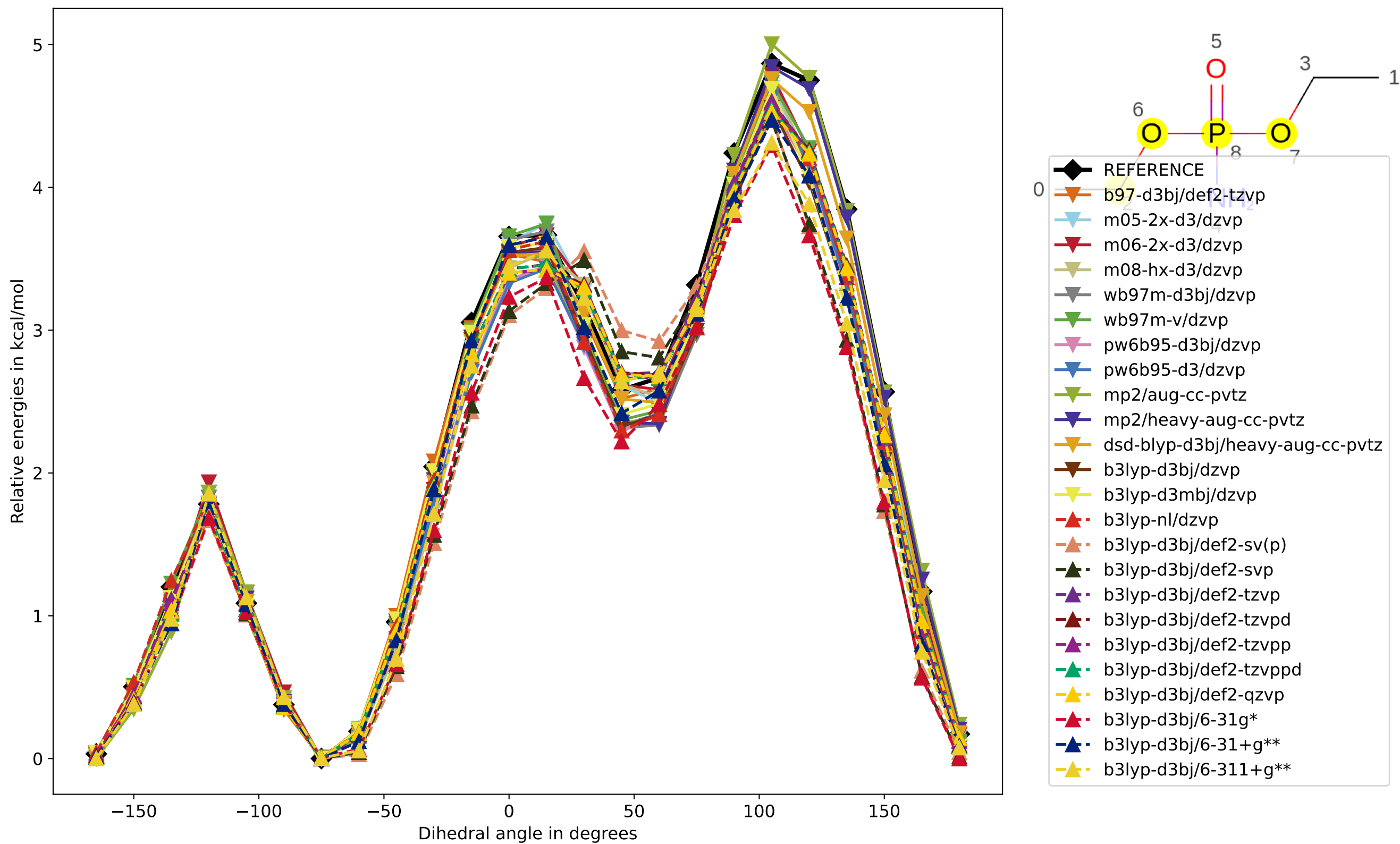


- REFERENCE
- b97-d3bj/def2-tzvp
- m05-2x-d3/dzvp
- m06-2x-d3/dzvp
- m08-hx-d3/dzvp
- wb97m-d3bj/dzvp
- wb97m-v/dzvp
- pw6b95-d3bj/dzvp
- pw6b95-d3/dzvp
- mp2/aug-cc-pvtz
- mp2/heavy-aug-cc-pvtz
- dsd-blyp-d3bj/heavy-aug-cc-pvtz
- b3lyp-d3bj/dzvp
- b3lyp-d3mbj/dzvp
- b3lyp-nl/dzvp
- b3lyp-d3bj/def2-sv(p)
- b3lyp-d3bj/def2-svp
- b3lyp-d3bj/def2-tzvp
- b3lyp-d3bj/def2-tzvppd
- b3lyp-d3bj/def2-tzvpp
- b3lyp-d3bj/def2-tzvppd
- b3lyp-d3bj/def2-qzvpp
- b3lyp-d3bj/6-31g*
- b3lyp-d3bj/6-31+g**
- b3lyp-d3bj/6-311+g**



- REFERENCE
- b97-d3bj/def2-tzvp
- m05-2x-d3/dzvp
- m06-2x-d3/dzvp
- m08-hx-d3/dzvp
- wb97m-d3bj/dzvp
- wb97m-v/dzvp
- pw6b95-d3bj/dzvp
- pw6b95-d3/dzvp
- mp2/aug-cc-pvtz
- mp2/heavy-aug-cc-pvtz
- dsd-blyp-d3bj/heavy-aug-cc-pvtz
- b3lyp-d3bj/dzvp
- b3lyp-d3mbj/dzvp
- b3lyp-nl/dzvp
- b3lyp-d3bj/def2-sv(p)
- b3lyp-d3bj/def2-svp
- b3lyp-d3bj/def2-tzvp
- b3lyp-d3bj/def2-tzvppd
- b3lyp-d3bj/def2-tzvpp
- b3lyp-d3bj/def2-tzvppd
- b3lyp-d3bj/def2-qzvp
- b3lyp-d3bj/6-31g*
- b3lyp-d3bj/6-31+g**
- b3lyp-d3bj/6-311+g**

Neutral molecule



Neutral molecule

