- Generate all possible isomers from the molecular formula
- 给定分子式,给出所有包含所有同分异构体(包含旋光异构体)的SMILES结构
 - Requirements
 - How to use

Generate all possible isomers from the molecular formula

给定分子式,给出所有包含所有同分异构体(包含旋光异构体)的SMILES结构

Generate SMILES for all isomers. Input formula likes "C6H6" or "C2H6O" or "C2H5OH". Output likes ["c1ccccc1", "C=C=C1[C@H]2C[C@@H]12", "C1C2[C@@H]3[C@H]4[C@@H]2[C@@]143"...]

molecules.py from MolDQN: Optimization of Molecules via Deep Reinforcement Learning | Scientific Reports (nature.com)

Requirements

rdkit

How to use

```
import formula_to_all_isomers
all_smiles = formula_to_all_isomers.configurational_isomers_finder("C6H12ClF")
all_smiles = list(set([Chem.MolToSmiles(Chem.MolFromSmiles(each)) for each in
all_smiles]))
print(len(all_smiles))
all_mols = [Chem.MolFromSmiles(each) for each in all_smiles]
Chem.Draw.MolsToGridImage(all_mols)
```







