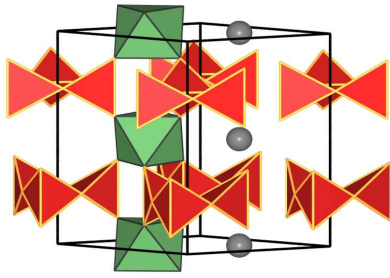
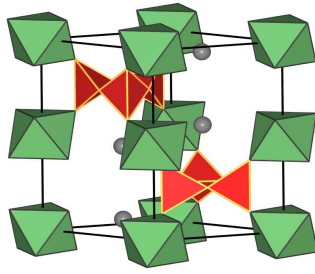


## 4. Ring(Cyclo)-Silicate

### 4.1. Dreiringe

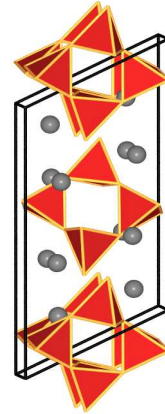


Benitoit ( $\text{BaTi}[\text{Si}_3\text{O}_9]$ )



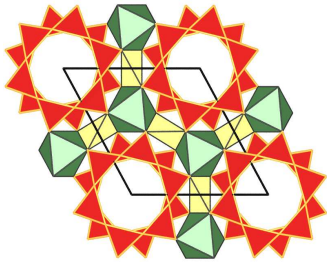
Wadeit ( $\text{K}_2\text{Zr}[\text{Si}_3\text{O}_9]$ )

### 4.2. Vierringe

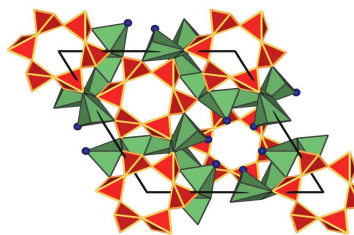


$\text{Sr}_4[\text{Si}_4\text{O}_{12}]$

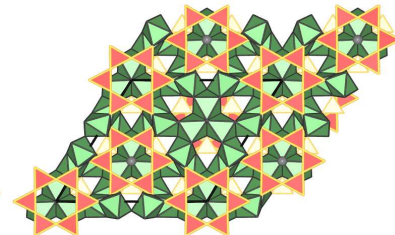
### 4.3. Sechsringe



Beryll ( $\text{Al}_2\text{Be}_3[\text{Si}_6\text{O}_{18}]$ )

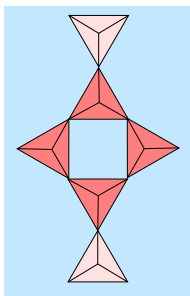


Dioptas  $\text{Cu}_6[\text{Si}_6\text{O}_{18}] \cdot 6\text{H}_2\text{O}$

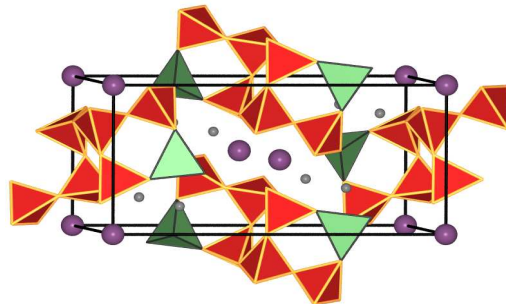


Turmalin:  $(\text{Na}, \text{Ca})(\text{Li}, \text{Al})_3 \text{Al}_6(\text{OH})_4(\text{BO}_3)_3[\text{Si}_6\text{O}_{18}]$

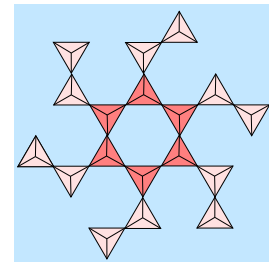
### 4.4. Ringsilicate mit Verzweigungen



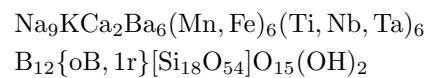
Eakerit



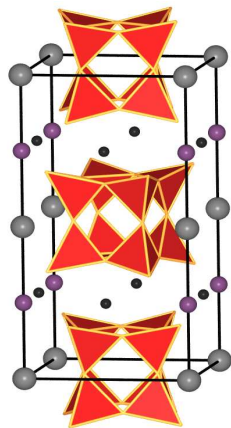
$\text{Ca}_2\text{SnAl}_2[\text{Si}_6\text{O}_{18}](\text{OH})_2(\text{H}_2\text{O})_2$



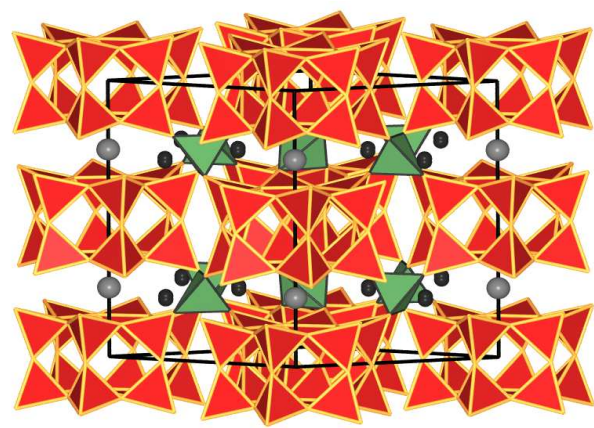
Tienshanit



## 5. Doppelringsilicate



Ekanit  $\text{K}(\text{Ca}, \text{Na})\text{Th}[\text{Si}_8\text{O}_{20}]$



Milarit  $\text{KCa}_2\text{AlBa}_2[\text{Si}_{12}\text{O}_{30}] \cdot 0.5\text{H}_2\text{O}$