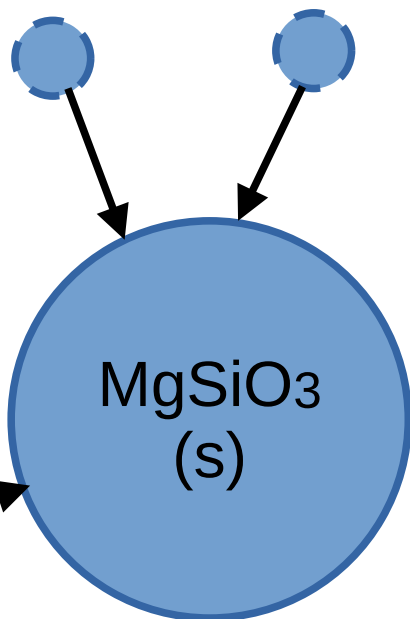
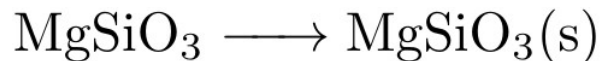


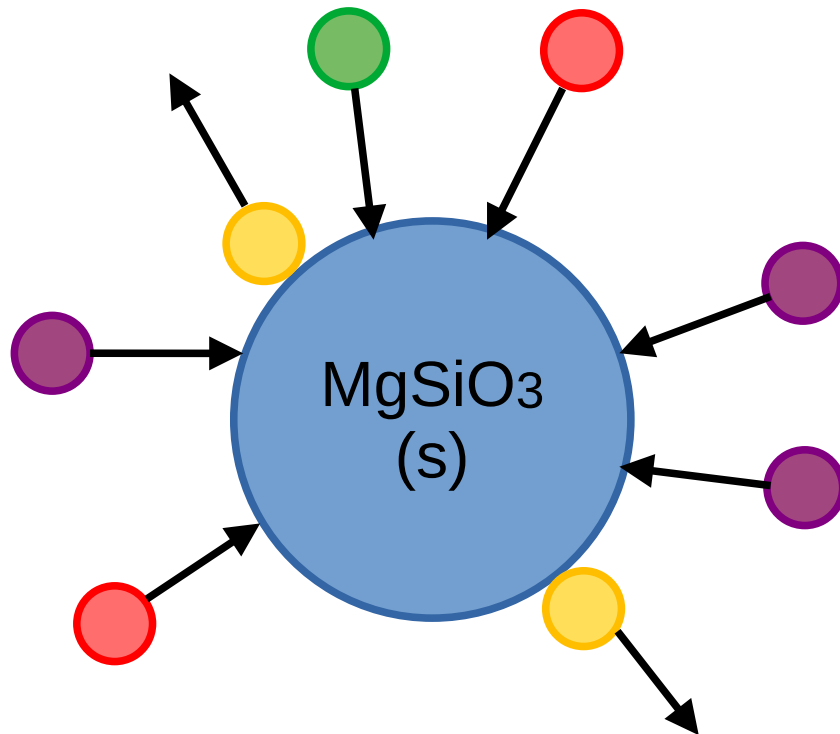
 $\text{MgSiO}_3 \text{ (v)}$



Ormel & Min (2019)



 Mg^*  H_2O
 SiO  H_2



This work

