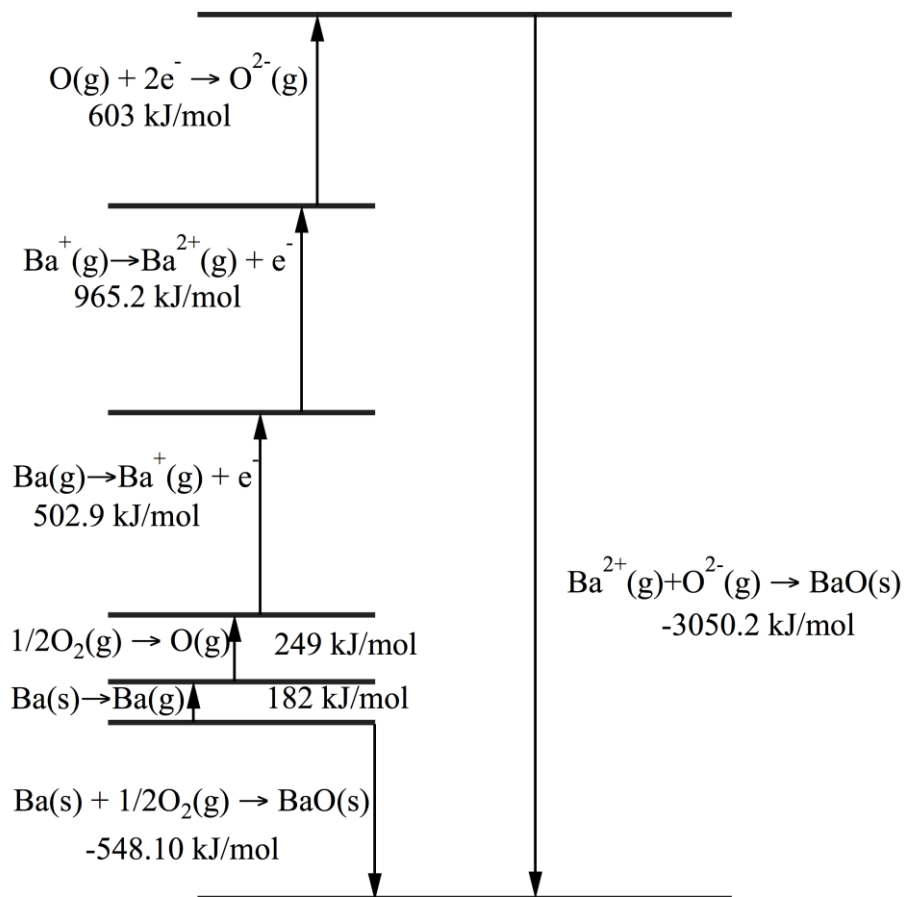


Answer on the question #68058, Chemistry / Physical Chemistry

Question:

b) Write Born-Haber cycle for BaO crystal.

Answer:



Data were taken from :

Electron affinity of oxygen : <https://2012books.lardbucket.org/books/principles-of-general-chemistry-v1.0/s11-03-energetics-of-ion-formation.html>

Ionization energy of barium : <https://www.webelements.com/barium/atoms.html>

Enthalpy of atomization of barium :

<https://www.webelements.com/barium/thermochemistry.html>

Enthalpy of atomization of oxygen :

<https://www.webelements.com/oxygen/thermochemistry.html>

Enthalpy of formation of BaO :

<http://webbook.nist.gov/cgi/cbook.cgi?ID=C1304285&Units=SI&Mask=2#Thermo-Condensed>