

Quiz 17.3 – The Nernst Equation

Name: _____

A cell is constructed which reduces Pb^{2+} to Pb and oxidizes Al to Al^{3+} and operated at $25.00\text{ }^{\circ}\text{C}$

Question 1

Find E_{cell}° for this cell

Question 2

Based on E_{cell}° , find ΔG° for the reaction in this cell

Question 3

Based on E_{cell}° , find K for the reaction in this cell

Question 4

Find E for this cell if the actual concentrations are: $[\text{Pb}^{2+}] = 0.250\text{ M}$ and $[\text{Al}^{3+}] = 0.125\text{ M}$

Question 5

Will the voltage increase or decrease if the cell is placed in the refrigerator?

Good Bones

By Maggie Smith

Life is short, though I keep this from my children.
Life is short, and I've shortened mine
in a thousand delicious, ill-advised ways,
a thousand deliciously ill-advised ways
I'll keep from my children. The world is at least
fifty percent terrible, and that's a conservative
estimate, though I keep this from my children.
For every bird there is a stone thrown at a bird.
For every loved child, a child broken, bagged,
sunk in a lake. Life is short and the world
is at least half terrible, and for every kind
stranger, there is one who would break you,
though I keep this from my children. I am trying
to sell them the world. Any decent realtor,
walking you through a real shithole, chirps on
about good bones: This place could be beautiful,
right? You could make this place beautiful.