

Quiz 5.4 – Activities

Name: _____

Extended Debye-Hückel Law

CaF_2 is a sparingly soluble salt whose solubility product is $K_{SP} = 1.6 \times 10^{-10}$. Give the molar concentration of CaF_2 in (1) pure water, and (2) an aqueous solution buffered with 0.50 *molal* NaNO_3 . Use the extended Debye-Hückel law, with $A = 0.5085$ and $B = 0.9843$ (values for water at 25°C and typical ion sizes).

My Voice

By Rafael Campo

To cure myself of wanting Cuban songs,
I wrote a Cuban song about the need
For people to suppress their fantasies,
Especially unhealthy ones. The song
Began by making reference to the sea,
Because the sea is like a need so great
And deep it never can be swallowed. Then
The song explores some common myths
About the Cuban people and their folklore:
The story of a little Carib boy
Mistakenly abandoned to the sea;
The legend of a bird who wanted song
So desperately he gave up flight; a queen
Whose strength was greater than a rival king's.
The song goes on about morality,
And then there is a line about the sea,
How deep it is, how many creatures need
Its nourishment, how beautiful it is
To need. The song is ending now, because
I cannot bear to hear it any longer.
I call this song of needful love my voice.