

Puri Sharma Pathania Physical Chemistry

Liquid junction potential Thus at the point of junction, a potential difference will develop because of the ionic transfer. The rate of diffusion of each ion will be roughly proportional to its speed in an electric field, or their ion mobility. Electrochemical kinetics Advanced Physical Chemistry by Gurtu & Snehi Principles of Physical Chemistry by Puri, Sharma, Pathania J. Phys. Chem. This potential is called. The more concentrated solution will have a tendency to diffuse into the comparatively less concentrated one. Elimination of Liquid junction potential (shortly LJP) occurs when two solutions of electrolytes of different concentrations are in contact with each other. If the anions diffuse more rapidly than the cations, they will diffuse ahead into the dilute solution, leaving the latter negatively charged and the concentrated solution positively charged. This will result in an electrical double layer of positive and negative charges at the junction of the two solutions 790f8939b3

Congruent melting It can be contrasted with incongruent melting. Accordingly, there will be three fusion or freezing point curves AC, BE and CDE for the three solid phases. To take a general case, let A and B be the two components and AB a stable solid compound formed by their chemical combination. melting Phase diagram Phase rule Elements of Physical Chemistry, Puri-Sharma-Pathania Atkins' Physical Chemistry, 8th edition, by Peter Atkins and Julio De Congruent melting occurs during melting of a compound when the composition of the liquid that forms is the same as the composition of the solid. In the phase diagram, we can notice that the top point D of the phase diagram is the congruent melting point of the compound AB because the solid and liquid phases now have the same composition. Evidently, at. This generally happens in two-component systems. If we draw a phase diagram for the system, we notice that there are three solid phases, namely A, B and compound AB 790f8939b3

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