

Answer on Question #73624 - Chemistry - Physical Chemistry

Question:

How are physical properties of colloidal solutions different from those of true solutions and coarse dispersions? Explain

Solution:

Colloidal solutions:

Transparent, opalescent;

Have a phase separation surface;

The particles pass through a paper filter, but are delayed by cellophane;

Relatively stable kinetic;

Age in time;

The particles are visible in an electron microscope.

True solutions:

Transparent does not opalesce;

There are no surfaces of phase separation;

The particles pass through a paper filter and cellophane;

Stable kinetically and thermodynamically;

Do not age in time;

Particles are not visible in modern microscopes.

Roughly dispersed systems:

Non transparent;

Have a phase separation surface;

The particles do not pass through a paper filter;

Unstable kinetically and thermodynamically;

Age in time;

The particles are visible in an optical microscope.