

dispersed phase "Throughout a dispersing medium made of another substance.

Note that

- Colloidal particles are much larger than the normal solute molecules.
- They range from $1*10^3$ pm to $1*10^6$ pm.
- The dispersed phase and the dispersing medium can be gas, liquid, solid or a combination of different phases.

Aerosol: \rightarrow consist of liquid droplets or solid particles dispersed in a gas as "smoke, fog, mist"

Emulsion: \rightarrow consist of liquid droplet dispersed in another liquid "Mayonnaise".

Sol: \rightarrow a suspension of solid particles in a liquid "milk of magnesia".

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Chemistry-2-Ch.S.o	Chemi	istry-2	-ch.3.8
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الملخص الشامل - All in one

Types of colloids

Dispersing medium	Dispersed phase	Name	Example
gas	liquid	aerosol	Fog, mist
gas	solid	aerosol	smoke
liquid	gas	foam	Whipped cream
liquid	liquid	emulsion	mayonnaise
liquid	solid	sol	Milk of magnesia
solid	gas	foam	Plastic foams
solid	liquid	gel	Jelly/ butter
solid	solid	Solid sol	Certain alloys "steel ,opal"

Tyndall effect: \rightarrow is used to distinguish a solution from a colloid.

- When a beam of light passes through a colloid, it is scattered by the dispersed phase.
- No such scattering is observed with ordinary solution, because the solute molecules are too small to interact with visible light.
- Another demonstration of the Tyndale effect is the scattering of sunlight by dust or smoke in air.

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6)	Consist of liquid drop	plat dispar	and in another liquid
() ()		piet disper	foom
A)	vapor	C)	
В)	aerosol	D)	emulsion
7)	Consist of liquid or so	lid particle	es dispersed in gas.
A)	foam	C)	gel
B)	sol	D)	aerosol
8)	is a suspension of solid	particle in	liquid.
A)	aerosol	C)	gel
B)	sol	D)	emulsion
9) Th	e example on emulsion phase	is	
A)	fog	C)	sol
B)	mayonnaise	D)	smoke
10) N	Aayonnaise is an example of.		
A)	emulsion	C)	aerosol
B)	sol	D)	gel
11) S	olid sol is a name of	In	
A)	liquid-solid	C)	liquid-gas
B)	solid-gas	D)	solid-solid
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12) S	teel and opal are an example of		
A)	foam	C)	<u>solid sol</u>
B)	solid	D)	emulsion
13) N	Tilk of magnesia is an example of .	•••••	
A)	foam	C)	solid sol
B)	<u>sol</u>	D)	aerosol
14) 7	Tyndall effect used to distinguish a	solut	ion from
A)	<u>colloid</u>	C)	emulsion
B)	gas	D)	foam
15) T	he energy associated with molecul	ar vit	oration is
A)	Vander walls effect	C)	Boltzmann effect
B)	Tyndall effect	D)	Blank effect
16) T	yndall effect is used to distinguish		from colloid.
A)	solution	C)	emulsion
B)	solid	D)	solid sol
17) Beam of light scattered when pass through			
A)	solution	C)	solid sol
B)	emulsion	D)	<u>colloid</u>
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	Chemistry-2-ch.3.8	– الملخص الشامل - All in one
18) 1	lo scattering occur in	
A)	ordinary solution	C) emulsion
B)	colloid	D) foam
19) T	he name hydronhobic refers to	
A)	water loving	C) <u>water fearing</u>
B)	water heating	D) sol
20)	The name hydrophilic refers to	
A)	water loving	C) water heating
B)	water fearing	D) emulsion
21) I	n both hydrophilic and hydrophot	bic the dispersing medium
A)	water	C) benzene
B)	ethanol	D) any solvent
22).	colloids wouldn't be stable	e in water.
A)	hydrophilic	C) heavy
B)	hydrophobic	D) small

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	Chemistry-2-ch.3.8	الملخص الشامل - All in one
23) H A)	Hydro phobic colloid be would	e stable in water. C) in some cases would and in other cases wouldn't
B)	wouldn't	
24) such a	are usually solutions con as "protein".	taining extremely large molecules
A)	hydrophobic	C) emulsion
B)	hydrophilic	D) solid sol
25) A) B)	is adherence into the s adsorption absorption	C) adhesion D) solvation
26)	is passage to the interi	or of the medium.
A)	adsorption	C) adhesion
B)	absorption	D) solvation

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