

Mixtures

- Keep their properties
- Do not form new properties
- Can be separated by:
hands
sifting
filters
magnetism

2 or more
substances

Can be found
everywhere

Both are
mixtures

Solutions

A special kind
of mixture

Substances form
NEW physical
properties

Can be
separated by
evaporation
(saltwater)

Separating components of solid-liquid mixtures

Sedimentation

When mixture is heterogeneous and solid constituent is heavy?

e.g. sand + water, dirt + muddy water

Homogenous Mixture and one constituent is heavy?

Centrifugation

e.g. separate cream from milk

Evaporation

When solid present in the liquid is non-volatile?

e.g. common salt + water, Sulphur in Carbon disulphide

When one the component dissolves in a solvent?

Filtration

e.g. common salt + sand

Distillation

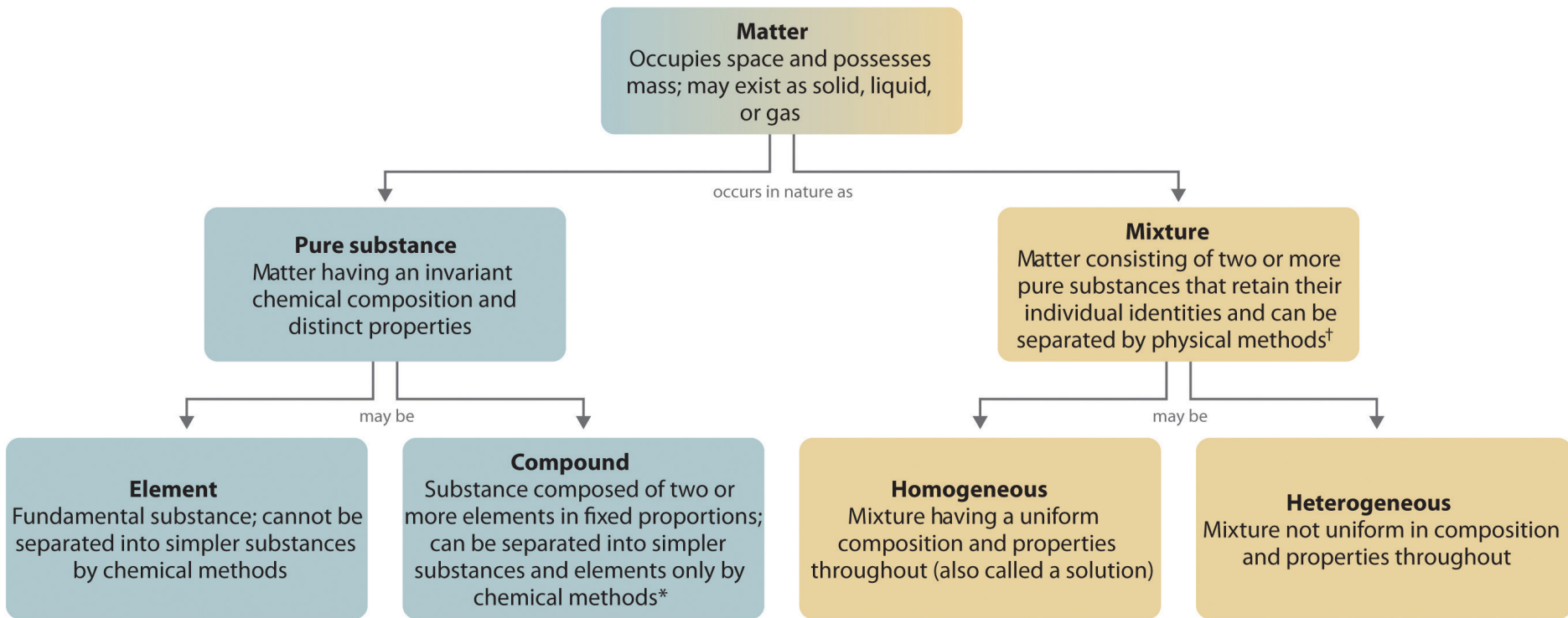
Any homogeneous or heterogenous mixture?

common salt + water

When components are soluble in solvent?

Chromatography

Ink components



* Chemical methods of separation include electrolysis.

[†] Physical methods of separation include filtration, distillation, and crystallization.