**CO₂ Removal by the Benfield Process**

### DESCRIPTION:

What you can see in the picture above is the simulation of an existing plant to remove CO₂ from a process stream by absorption/regeneration with a hot potassium carbonate solution. CO₂ is absorbed by chemical reaction, and it is the type of calculations CHEMCAD 5 Electrolyte Package has been made for.

This sort of simulation requires applying the True Species Approach, where regular components and electrolyte species are treated equally.

CHEMCAD 5 has a database of ionic reactions built-in. Many industrially important systems have been covered. In case some reaction data are missing, CHEMCAD 5 would try to calculate equilibrium coefficients. Electrolyte Regression facility is also available.