

Experimental determination of key thermodynamic properties for CO₂ remediation

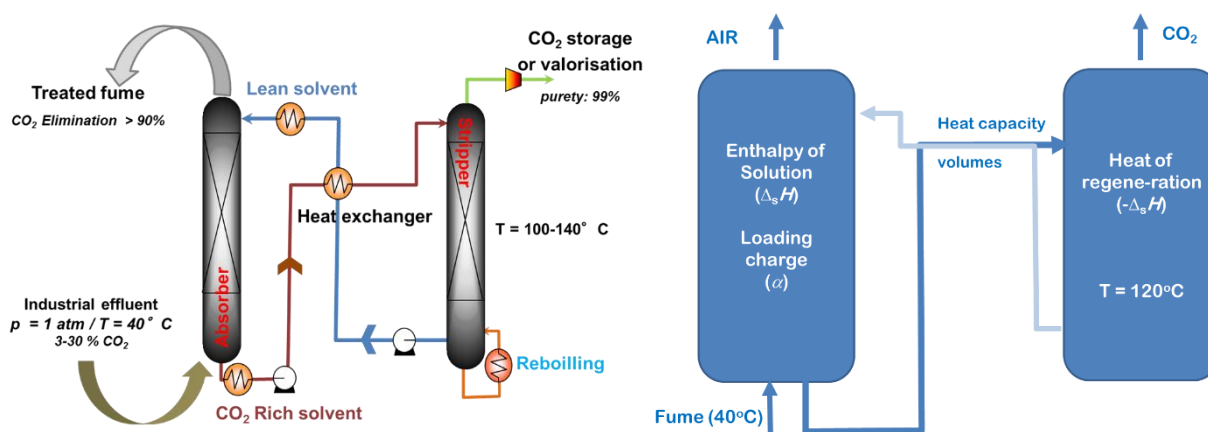
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In order to fight against global warming, industrials and academics have to work together to propose reliable options to capture greenhouse gases from existing fixed sources and to store it in secure sites. The most mature option is post-combustion capture using liquid absorbents



Post-combustion capture process using liquid absorbents: industrial schematic view (left) and academic understanding (right)

The aim of this presentation will be to describe through some examples different experimental approaches developed in research laboratories to obtain key properties for optimization of the process. This will cover thermodynamic properties such as enthalpies and heat capacities, gas solubilities, transport properties such as densities and viscosities, liquid-liquid phase equilibria or speciation. We will present the methods, the properties obtained and the limitations of the techniques.

Preferred type of contribution:

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☐ **Poster**

☒ **Oral**

NB : The final decision belongs to the Scientific Committee