

## IUPAC Project Progress Report

**Date:** October 2008

**Task Group Leader:** Pirketta Scharlin

**Project number:** 2002-044-1-500

**Project Title:** Solubility data related to industrial processes.  
Carbon dioxide in aqueous non-electrolyte solutions.

**Report:**

1. Current status of project:

About 380 data pages altogether are in the required electronic format. The compiled data consist of 60 different solvent systems, including aqueous solutions of alcohols, ethers, ketones, carboxylic acids, sugars, and nitrogen containing organic compounds.

Evaluation of aqueous alkanolamine systems is in progress. Two evaluations (*CO<sub>2</sub> in aqueous monoethanolamine* and *CO<sub>2</sub> in aqueous triethanolamine*) are in draft form and and two more (*CO<sub>2</sub> in aqueous diethanolamine* and *CO<sub>2</sub> in aqueous methyl-diethanolamine*) have been initiated.

2. Progress relative to 'milestones': Relative to 'milestones' given in the original project submission form, the project is late. (See # 3.)

3. Difficulties encountered (or concerns): Evaluations and some data collections have been delayed during the past two years. Contributors have not been able to work on the project.

4. Projected completion date (documents ready for external review):

Under the present circumstances it is really very difficult to foretell completion date. (See # 3.) [A change in completion date from 31 Dec 2008 to 31 Dec 2009 is requested.](#)

5. Please list all of the intended outputs and the dissemination plan for this project (viz. articles, CD, conference presentations; etc.). These may have been expanded since project approval:

Intended outputs: *Journal of Physical and Chemical Reference Data* and *IUPAC- NIST Solubility Database*.

Dissemination plan: Access to the information of the Solubility Data Series is provided to chemists through the specialist abstracting journals, principally Chemical Abstracts and to potential non-chemist users via the IUPAC and SSED web sites which are catalogued by various commercial search engines. Furthermore, the abstract of the respective *JPCRD* article will be published in *CI*, as recommended by the ACD officers.

6. If your project is within 6 months of completion, how do you plan to utilise any remaining budget for this project?

7. Work on this project may have identified new problems, issues, challenges, emerging topics, opportunities for related projects, etc. Please indicate these here so that the Division can follow up on them: