

**IUPAC Project Progress Report**

**Date :** December 2005 ; Period: July 2005 – February 2006

**Project number:** 2005-006-1-500

**Project Title: Title:** Mutual Solubility of Alcohols and Water (update of SDS Vol 15)

**Task Group Leader:** Andrzej Maczynski

**Starting date:** January 1, 2005

**Report:**

The project is in progress and will be published in the five following Parts:

Part 1: C<sub>4</sub> Alcohols with Water

Part 2: C<sub>5</sub> Alcohols with Water

Part 3: C<sub>6</sub> Alcohols with Water

Part 4: C<sub>7</sub> Alcohols with Water

Part 5: C<sub>8</sub> - C<sub>17</sub> Alcohols with Water

1. Projected completion date (documents ready for external review): April 1, 2006

2. Have the project objectives been modified during the last 6 months? no

3. Please list the task group members involved in the work during the last 6 months.

A. Maczynski, M.Goral, B. Wisniewska–Gocłowska, D. Shaw, M. Salomon

4. Difficulties encountered (or concerns): no difficulties

5. Please list the to-date results (outputs) of the project

solubility and liquid–liquid equilibrium data for binary alcohol + water systems

all new compilations have been already prepared and most of the new evaluations are in preparation

Two articles (Parts 1 and 2) have been submitted to the Journal of Physical and Chemical Reference Data, one (Part 3) is under review, and two (Parts 4 and 5) are in preparation.

6. Please list the dissemination events (viz. articles, CD, conference presentations; etc.)

(i) already accomplished;

M. Góral, B. Wisniewska-Gocłowska, and A. Maczynski, Recommended Liquid-Liquid Equilibria, Part 4, Binary Alcanol - Water Systems, Journal of Physical and Chemical Reference Data (*submitted*).

(ii) planned M. Góral, B. Wisniewska-Gocłowska, and A. Maczynski, Recommended Liquid-Liquid Equilibria, Part 5, Binary Branched Alcohol - Water Systems, Journal of Physical and Chemical Reference Data

7. If your project is within 6 months of completion, how do you plan to utilise any remaining budget for this project? no remaining budget

8. 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:

New method of correlation, critical evaluation, and prediction of solubility and liquid–liquid equilibrium data for binary alcohol + water systems.