

Annexe V

IUPAC-SSSED Workshop on
'Metrological traceability of solubility data'

AGENDA

February, 28, 2008

APAT , Via Curtatone 3, Sala Fazzini (1st floor) – 00185 Roma

14:00 D. Brynn Hibbert: Overview of the IUPAC metrological traceability project

14:50 H. Gamsjaeger: Traceability of solubility of sparingly soluble ionic solids
with basic anions in water

15:40 Coffee break

16:10 M. Costa-Gomez: Gas solubility in new media for sustainable technology

17:00 D. Knox: Traceability of solubility in supercritical fluids?

**SUBCOMMITTEE ON
SOLUBILITY AND
EQUILIBRIUM DATA**

Summary of Workshop held
28 February 2008, Rome, Italy

D. Brynn Hibbert

- Discussed traceability
 - Definition
 - Rationale / need
- Traceability Chains
 - Calibrations
 - Alternate reference standards
- Comments included strong suggestion of including traceability in SDS projects

Heinz Gamsjaeger

- Discusses examples involving sparingly soluble ionic solids
 - Thallium sulphide
 - Nickel carbonate
 - Tin chloride
- Also introduced concept of effect of particle size

Margarida Costa-Gomez

- Discussed alternative solvents in general, and ionic liquids in particular
- Gas solubility in ionic liquids
 - Mixed solvents
 - Mixed gases

Dana Knox

- Discussed solubilities in supercritical fluids
 - Properties of SCF's
 - Unique characteristics of their phase diagrams
 - Resulting complications in measurement of solubilities
 - Implications for metrological traceability

Discussion

- General Discussion followed the workshop
- Agreement reached that next step should be development of an example metrological traceability chain for solubility
 - 2 points of contact, one from SSSED, one from traceability group
 - Should be a very simple system to start