Supporting Information

Determination and Correlation of Solubility
of Phenylbutazone in Mono-Solvents and Binary Solvent Mixtures

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Supporting figures: solubility curves of PBZ in mono-solvents and binary solvent mixtures.
Figure S1. Solubility of PBZ in mono-solvents: - methanol; - ethanol; - 2-propanol; - n-butanol; - n-pentanol; - n-hexanol; - ethyl acetate; - acetone; - DMF; - acetonitrile.
Figure S2. Experimental and literature solubility data of PBZ in the mono-solvent of ethanol:

- , experimental data;
- , literature data.
Figure S3. Solubility of PBZ in binary methanol(3) + acetone(2) mixed solvents:■, 0.0000; □, 0.1002; ▲, 0.1999; △, 0.3000;◆, 0.4008;◇, 0.5008;▼, 0.6006;▽, 0.7020;★, 0.8007;☆, 0.8991;☉, 1.0000.
Figure S4. Solubility of PBZ in binary ethanol(2) + acetonitrile(3) mixed solvents: ○, 0.0000; ☆, 0.1076; ★, 0.2006; ▽, 0.2988; ▼, 0.4005; ◇, 0.5018; ◆, 0.6019; △, 0.7017; ▲, 0.8024; □, 0.9016; ■, 1.0000.