# Solubilities of 4',5,7-Triacetoxyflavanone in Fourteen Organic Solvents at Different Temperatures

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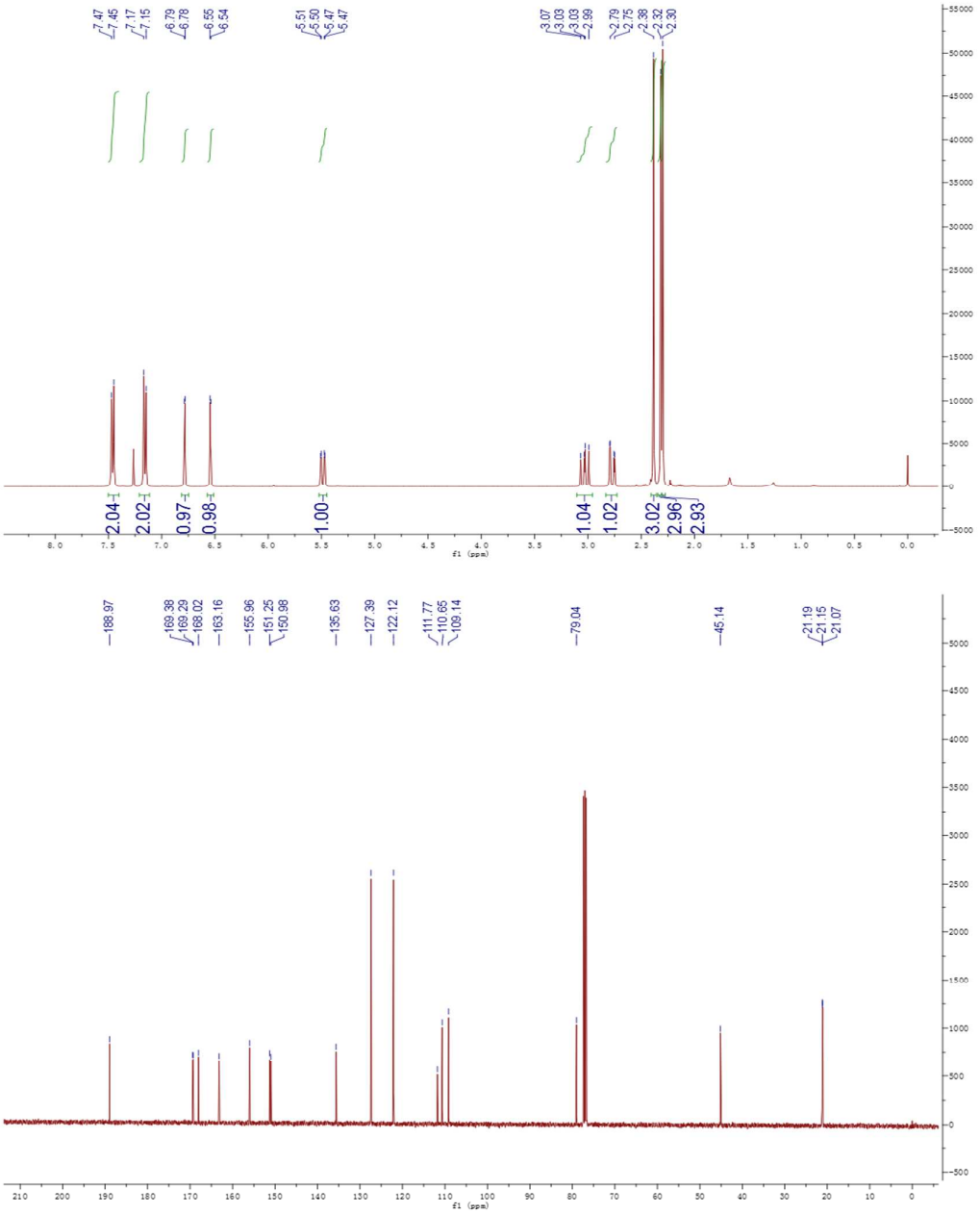


**Figure S1.** $^{1}$H and $^{13}$C NMR spectra of 4',5,7-triacetoxyflavanone.

$^{1}$H NMR (400 MHz, $CDCl_3$) δ 7.46 (d, *J* = 8.5 Hz, 2H), 7.16 (d, *J* = 8.6 Hz, 2H), 6.78 (d, *J* = 2.2 Hz, 1H), 6.54 (d, *J* = 2.2 Hz, 1H), 5.49 (dd, *J* = 13.6, 2.6 Hz, 1H), 3.03 (dd, *J* = 16.7, 13.6 Hz, 1H), 2.77 (dd, *J* = 16.7, 2.7 Hz, 1H), 2.38 (s, 3H), 2.32 (s, 3H), 2.30 (s, 3H).

$^{13}$C NMR (100 MHz, $CDCl_3$) δ 188.97, 169.38, 169.29, 168.02, 163.16, 155.96, 151.25, 150.98, 135.63, 127.39, 122.12, 111.77, 110.65, 109.15, 79.04, 45.14, 21.19, 21.15, 21.07

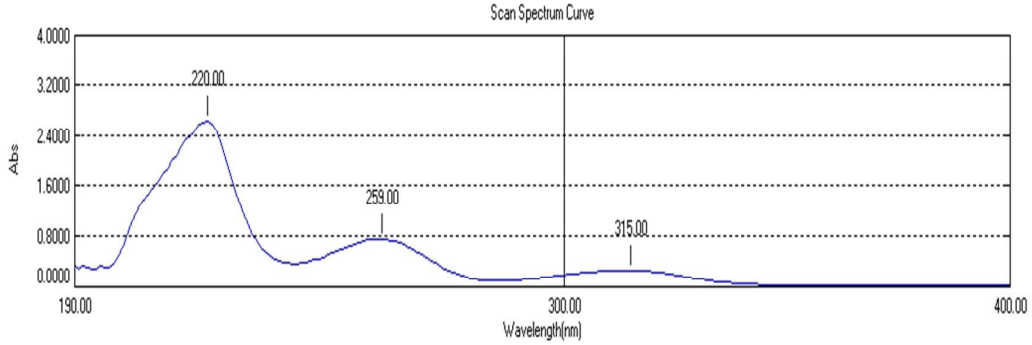


**Figure S2.** UV Spectrum curve of 4',5,7-triacetoxyflavanone.

**Table S1. $r_i$ and $q_i$ of 4',5,7-triacetoxyflavanone and pure solvents**

| | name | *r* | *q* |
|---|---|---|---|
| solvents | methanol | 1.431 | 1.432 |
| | ethanol | 2.105 | 1.972 |
| | 1-propanol | 2.780 | 2.512 |
| | 2-propanol | 2.779 | 2.508 |
| | 1-butanol | 3.454 | 3.052 |
| | 2-butanol | 3.453 | 3.048 |
| | 1-pentanol | 4.129 | 3.592 |
| | 1-hexanol | 4.803 | 4.132 |
| | 2-methoxyethanol | 3.024 | 2.752 |
| | 2-propoxyethanol | 4.372 | 3.832 |
| | 2-butoxyethanol | 5.047 | 4.372 |
| | ethylacetate | 3.479 | 3.116 |
| | tetrahydrofuran | 2.941 | 2.720 |
| | acetone | 2.573 | 2.336 |
| solute | 4',5,7-Triacetoxyflavanone | 13.225 | 9.952 |