Supporting Information for:

The Conformational Rigidity of Butane-1,2-Diacetals as a Powerful Synthetic Tool

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Typical $^1$H NMR spectra for butane-1,2-diacecal derivatives have four singlets, two corresponding to the methoxyl groups (~3.4–3.2 ppm) and two of the methyl groups (~1.2–1.4 ppm) (Figure 1). As an example the $^1$H NMR spectra of compounds 29 and 74 are shown in Figure 2.

![Figure 1](image_url)

The $^{13}$C NMR spectra for butane-1,2-diacecal derivatives usually have six signals: two at ~100–99 ppm of the quaternary centers, two at ~48–47 ppm of the methoxyl groups and two at ~18–17 ppm corresponding to the methyl groups. An example is shown in Figure 3.
Figure 2. $^1$H NMR spectra of compounds 25 and 74.
Figure 3. $^{13}$C NMR and DEPT spectra of compound 25.