How to: Chemical Compound Numbering in LaTeX
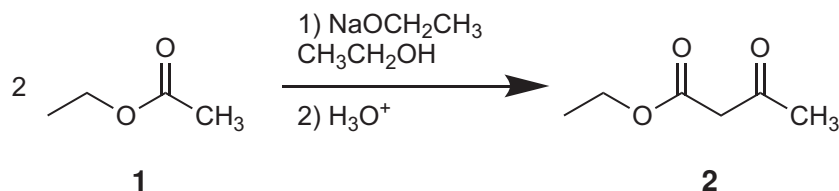
Lumen750

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An ester (**1**) gets converted into a Claisen condensation product (**2**) in Scheme 1.

SCHEME 1: Ester **1** gets converted into **2** in a Claisen condensation.

Also, sublabels can be used. See **Figure 1** for an example. **Figure 1** shows benzene (**3a**) and toluene (**3b**).

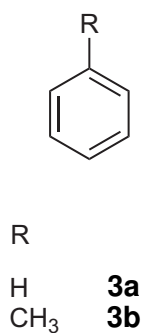| R	
H	**3a**
CH$_3$	**3b**

FIGURE 1: If the R group is a hydrogen, this compound is benzene (**3a**). If it is a methyl group, the compound is toluene (**3b**).

When adding the TMPXXX labels to a figure and exporting the figure as .eps file (text needs to be exported as text and not as vector graphic), the automatic compound numbering can also be applied there (**Figure 2**). Hypothetical spectra of compounds **1**, **2**, **3a** and **3b** are shown in **Figure 2**.
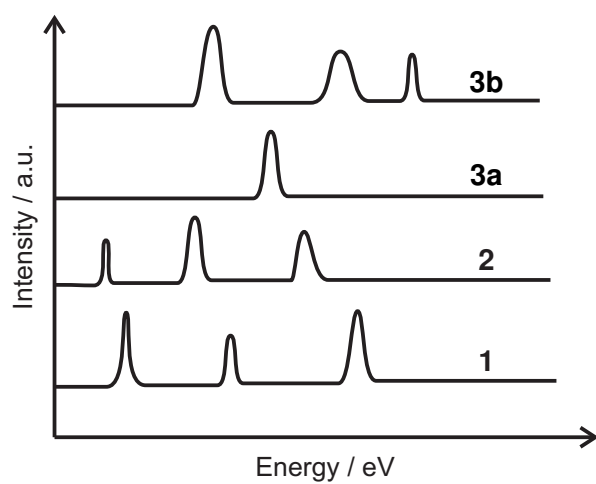
FIGURE 2: Spectra of compounds **1**, **2**, **3a** and **3b**.