

## Method for making sodium acrylate-D3 (D<sub>2</sub>C=CD-CO<sub>2</sub>Na)

### **Disclosure Number**

201102546

### **Technology Summary**

The invention developed out of our need to economically prepare acrylic acid-D<sub>3</sub> as a synthon for a variety of specialty deuterated acrylic monomers useful for making deuterated acrylic polymers for structural studies by, for example, small angle neutron scattering (SANS). The deuteration chemistry described in this invention utilizes inexpensive deuterated reagents and deuterium gas and a solvent. Some of the reagents can be reused. The invention provides the detailed reaction conditions in order to produce sodium acrylate-D<sub>3</sub> in high yield and quality.

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