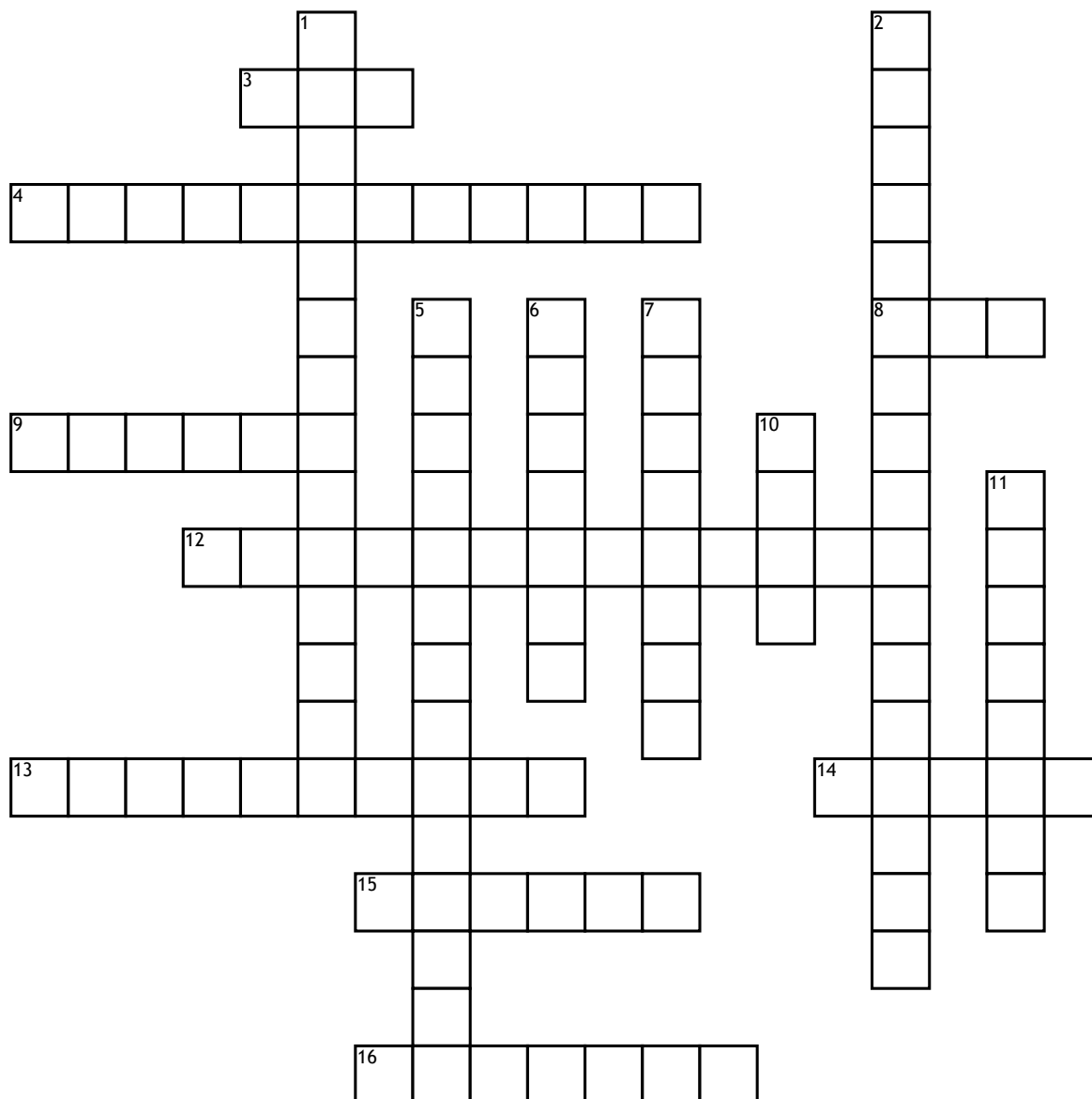


Name: _____

Date: _____

Christmas chemistry puzzle



Across

3. This compound has a chemical formula C_9H_8O . Its degree of unsaturation is ...
4. 266 K is this compound's ...
8. 14371-10-9 is this compound's ... number.
9. In the region 7-8 ppm in the proton NMR spectrum of this compound, there are four signals integrating to a total of six protons. One of these signals is a doublet with a coupling constant of 16 Hz. This indicates that one subunit of this molecule is ...
12. The biosynthesis of this compound begins with deamination of ...

13. One of the signals in the proton NMR spectrum of this compound is a doublet with a coupling constant of 16 Hz. This signal corresponds to a proton of a ...
14. This compound is also known as a corrosion inhibitor for ...
15. The appearance of this compound is ... oil.
16. Upon reduction, this compound gives ...

Down

1. This compound gives flavor and odor to Glühwein. Its trivial name is ...
2. This compound can be prepared from benzaldehyde and another reagent. This reaction is called ...

5. The IUPAC name of this compound is ... (without numbers and hyphens)
6. This compound can undergo ... addition.
7. This compound can be categorized as ...
10. Upon oxidation, this compound gives ...
11. Two signals in the proton NMR spectrum of this compound are a doublet of a doublet at 6.7 ppm with coupling constants of 16 and 10 Hz and a doublet at 9.5 ppm with a coupling constant of 10 Hz. This indicates that one subunit of this molecule is ...