


Naming amines and amides worksheet

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Of all the functional groups studied in the chemistry level, amines are the trickiest to name. This is because there are many naming conventions that can be used. In this blog I detail the three most common naming systems and discuss their relative merits. A direct chain of primary amines with an amino acid group at the end of the chain All exam boards seem to favor the alkylamin naming system of amines. This is a system that you will probably see in textbooks and exam paper questions. Examples include methylamine (CH₃NH₂), ethylamine (CH₃CH₂NH₂) and propylamine (CH₃CH₂CH₂NH₂) and so on. This is an old, traditional method of naming them, but not the preferred IUPAC system. The names of IUPAC for the respective molecules are methanamine, ethanamine, propane-1-amin. The third method of aminethin, amineetan, 1-amenopropane, which, from the point of view of the nomenclature, treats amines like halogenoalcans. So what's better? I think the obvious answer is that we should stick close to the convention that the exam board stands for. The downside is that it can get a little confusing when the functional group moves or you have secondary, tertiary or branched amines. By the way, for amines of this type, containing three or more carbon atoms, the traditional system uses n- before the name. Direct chains of primary amines with an amino acid group at the end of the chain are summed up in the following table. Other primary amines and branched primary amines this is where I think it's best to move away from the traditional naming system. For example, if I asked you to draw propane-2-amin, I would expect most A Level Chemistry students to be able to work, that these are three carbon molecules with an amino acid group on an average carbon atom, i.e. CH₃CH (NH₂)CH₃. If you can call alcohol confident, then it won't be a problem. Instead, you can call it 2-aminepropan, which also makes sense if you use halogenoalcans as a reference system. However, using a traditional naming system for this molecule will conjure up several archaic isopropylamines. So it should stand for the reason that the molecule that IUPAC would prefer to call butan-2-amin (CH₃CH (NH₂)CH₂CH₃) should have the old name isobutylamine? I'm afraid not. Isobutylamine will be equivalent to 2-methylpropan-1-amin (CH₃CH (CH₃)CH₂NH₂). The traditional name for butan-2-amin sec-butylamine or 1-methylpropylamin (which can be easily confused with methylpropylamin, you'll see why in the next section). It's getting worse. We know where we stand with pentan-2-amin and pentan-3-amin (or 2-aminepentan and 3-aminepentan, if you prefer). What about their traditional counterparts? 1-methyl-n-butylamine and 1-ethyl-n-propylamine, often written without-n-. It's a personal opinion, but I think that understand why IUPAC prefer to prefer Method. I think it's much clearer. The direct chain and branched isomers of six carbon atoms containing amines are summarized in the following table. As you can see, traditional names for more complex branched molecules are starting to get a little funny while IUPAC preferred names seem somewhat more rational. Secondary and tertiary amines Secondary amines have two carbon atoms attached to nitrogen, and tertiary ones have three carbon atoms attached to nitrogen. In these cases, the traditional method is perhaps a little easier where alkyl groups are straight chains, just call them in alphabetical order using di and three if there is more than one of the same type. Having said that, it can be easy to mistake methylpropylamin for 1-methylpropylamin. The IUPAC system treats the shorter alkyl group as a substitute on N position, and the rest of the title is based on what it would have been without this substitution. As far as I know, there are no equivalent names that refer to the amino acid group as a substitute. So if you prefer the amine convention, then you will have to change to one of the other systems when naming a secondary or tertiary amine. Examples below. In my next blog post I will go through cyclical amines, aromatic amines and molecules containing the group's amino acids in addition to another functional group. I hope you found this useful. If you have an offer for a future blog, then please contact me on Facebook or Twitter. Naming Amides and Amines - Displaying the top 8 sheets found for this concept. Some of the sheets for this concept are Ch 06 amines and amides, 1 carbon 2 carbo n3carbo 286, organic nomenclature acids and derivatives, naming organic compound practice, alcohol esters of aldehydes and ketones, a brief summary of iupac nomenclature organic compounds, additional naming work for aldegis and ketone key. Found the sheet you're looking for? 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