



Naming alcohols worksheet with answers doc

Which of the following is butan-1-ol? [1201] Which of the following is 2-methylpropanan-1-ol? [1203] Which of the following is 2-methylpropanan-2-ol? [1204] Which of the following is 2-methylpropanan-2-ol? [1204] Which of the following is 2-methylpropanan-1-ol? [1203] Which of the following is 2-methylpropanan-1-ol? [1203] Which of the following is 2-methylpropanan-2-ol? [1204] Which of the following is 2-methylpropana dimethylbutan-2-ol? [1206] Which of the following skeletal formulas is that of 3,3-dimethylbutan-1-ol? [1207] Which of the following is 2,2-dimethylbutan-1-ol? [1208] Which of the following is 3-methylpentan-3-ol? [1210] Which of the following is 2-dimethylbutan-1-ol? [1208] Which of the following is 2,2-dimethylbutan-1-ol? [1208] Which of the following is 2,2-dimethylbutan-1-ol? [1208] Which of the following is 2,2-dimethylbutan-1-ol? [1208] Which of the following is 3-methylpentan-3-ol? [1210] Which of the following is 2,2-dimethylbutan-1-ol? [1208] Which of the following is 3-methylpentan-3-ol? [1208] Which of the following is 2,2-dimethylbutan-1-ol? [1208] Which of the following is 2,2-dimethylbutan-1-ol? [1208] Which of the following is 3-methylpentan-3-ol? [1208] Which of the following i methylpentan-3-ol? [1211] Which of the following is 4-methylpentan-2-ol? [1212] Which of the following is 3-methylpentan-2-ol? [1213] Which of the following is 3-methylpentan-2-ol? [1213] Which of the following is 4-methylpentan-1-ol? [1215] Which of the following is 3-methylpentan-2-ol? [1213] Which of the following is 2-methylpentan-2-ol? [1213] Which of the following is 3-methylpentan-2-ol? [1213] Which of the following is 4-methylpentan-2-ol? [1214] Which of the following is 4-methylpentan-2-ol? [1215] Which of the following is 3-methylpentan-2-ol? [1213] Which of the following is 3-methylpentan-2-ol? [1213] Which of the following is 4-methylpentan-2-ol? [1214] Which of the following is 4-methylpentan-1-ol? 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[1222] Which of the following is 2-methoxy-2-methylpropane? [1223] Which of the following is 2-methoxy-2-methylpropane? [1221] Which of the following is 1-methoxy-2-methylpropane? [1221] Which of the following is 2-methoxy-2-methylpropane? [1221] Which of the following is 2-methoxy-2-methylpropane? [1221] Which of the following is 1-methoxy-2-methylpropane? [1222] Which of the following is 2-methoxy-2-methylpropane? [1221] Which of the following is 2-metho following is 1-ethoxypropane? [1223] Which of the following is methanol? [1225] Which of the following is methoxymetan? [1227] Which of the following is propan-1-ol? [1228] Which of the following is methoxymetan? [1227] Which of the following is methoxymetan? [1227] Which of the following is methoxymetan? [1228] Which of the following is methoxymetan? [1228] Which of the following is methoxymetan? ethane? [1231] Which of the following is propan-1-ol? [1232] Which of the following is 2-methylpropanan-2-ol? [1233] Which of the following is 2-methylpropanan-2-ol? [1234] Which of the following is 2-methylpropanan-2-ol? [1235] Which of the following is 2-methylpropanan-1-ol? [1237] Which of the following is 2-methylpropanan-2-ol? [1236] Which of the following is 2-methylpropanan-2-ol? [1237] Which of the following is 2-methylpropanan-2-ol? [1238] Which of the following is pentan-2-ol? [1238] Which of the following is 2-methylbutan-1-ol? [1240] Which of the following is 2-methylbutan-2-ol? Which of the following is 3-methylbutan-2-ol? Which of the following is 2-methylbutan-2-ol? Which of the following is 2-methylbutan-2-ol? [1243] What is 3,3dimethylbutan-2-ol? [1245] What is 2,3-dimethylbutan-2-ol? [1246] What is 3,3-dimethylbutan-1-ol? [1247] What is 2,3-dimethylbutan-1-ol? [1247] What is 2,3-dimethylbutan-1-ol? [1248] Which of the following is 2,2-dimethylbutan-1-ol? [1250] Which of the following is 3-methypentan-3-ol? [1251] Which of the following is 2-ethylbutan-1-ol? [1248] Which of the following is 2,2-dimethylbutan-1-ol? [1250] Which of the following is 3-methypentan-3-ol? [1251] Which of the following is 2-ethylbutan-1-ol? [1249] Which of the following is 2-ethylbutan-1-ol? [1248] Which of the following is 2-ethylbutan-1-ol? [1248] Which of the following is 2-ethylbutan-1-ol? [1248] Which of the following is 2-ethylbutan-1-ol? [1249] Which of the following is 2-ethylbutan-1-ol? [1248] Which of the following is 2-eth methylpentan-3-ol? [1252] Which of the following is 3-methylpentan-2-ol? [1253] Which of the following is 2-methylpentan-1-ol? [1254] Which of the following is 3-methylpentan-1-ol? [1255] Which of the following is 3-methylpentan-1-ol? [1256] Which of the following is 2-methylpentan-1-ol? [1257] Which of the following is 4-methylpentan-2-ol? [1257] Which of the following is 3-methylpentan-1-ol? [1257] Which of the following is 3-methylpentan-2-ol? [1257] Which of the following is 4-methylpentan-1-ol? [1257] Which of the following is 3-methylpentan-1-ol? [1257] Which of the following is 3-methylpentan-2-ol? [1257] Which of the following is 3-methylpentan-1-ol? [1257] Which of the following [1258] Which of the following is hexan-2-ol? [1259] Which of the following is 1-methoxybutaan? [1261] Which of the following is 2-methoxybutaan? [1262] Which of the following is 2-methoxybutaan? [1262] Which of the following is 2-methoxybutaan? [1263] Which of the following is 1-methoxybutaan? [1264] Which of the following is 2-methoxybutaan? [1262] Which of the following is 2-methoxybutaan? [1261] Which of the following is 2-methoxybutaan? [1261] Which of the following is 2-methoxybutaan? [1262] Which of the following is 2-methoxybutaan? [1261] Which of the following is 2-methoxybutaan? [1262] Which of the following is 2-methoxybutaan? [1261] Which of the following is 2-methoxybutaan? [1261] Which of the following is 2-methoxybutaan? [1262] Which of the following is 2-methoxybutaan? [1261] Which of the following is 2-methoxybutaan? [1262] Which of the following is 2-methoxybutaan? [[1265] Which of the following is methoxyethane? [1266] Which of the following is 4-methylpentan-2-ol? [1267] Which of the following is 3-methylpentan-2-ol? [1269] Which of the following is 3-methylpentan-2-ol? [1269] Which of the following is 2-methylpentan-2-ol? [1270] Which of the following is 4-methylpentan-1-ol? [1271] Which is the right name for ? [1272] 3-methylpentan-1-ol 3-methylpentan-1-ol 4-methylpentan-1-ol What is the correct name for? [1273] heptan-1-ol Who is the right name for? [1274] 1-methoxy-2-methylpropane 2-methoxy-1-methylpropane 2-methoxy-2-methylpropane 2-methoxy-2-methylpentan-1-ol Who is the right name for? [1274] 1-methoxy-2-methylpentan-1-ol Mo is the right name for? [1273] heptan-1-ol Who is the right name for? [1274] 1-methoxy-2-methylpropane 2-methoxy-2-methylpentan-1-ol Who is the right name for? [1274] 1-methoxy-2-methylpentan-1-ol Mo is the right name for? [1273] heptan-1-ol Who is the right name for? [1274] 1-methoxy-2-methylpentan-1-ol Mo is the right nam What is the correct name for ? [1275] 1-ethoxy-2-methyl propane 2-methoxy-2-methyl propane 1-methoxy-2-ethyl propane 1-methoxy-2-methyl propane 1-methoxy-2right name for? [1278] ethenol methanol ethanol alcohol Which is the right name for? [1279] ethanol hydroxyethane methylol methanol Which is the correct name for? [1281] ethoxyethane methoxyethane methoxyethane methoxyethane methoxyethane methylol methanol Which is the correct name for? [1281] ethoxyethane methoxyethane methoxyethane methoxyethane methoxyethane methoxyethane methylol methanol Which is the correct name for? [1281] ethoxyethane methoxyethane met methoxymethane That's the right name for? [1283] propanol 1-methylpropan-1-ol butan-1-ol propan-1-ol Which is the correct name for? [1284] methoxymethane methoxymethane that's the right name for? [1285] ethenol ethanol methanol What is the correct name for? [1284] methoxymethane methoxymethane that's the right name for? [1284] methoxymethane methoxymethane methoxymethane for? [1285] ethenol ethanol methanol methanol methoxymethane methoxymethane for? [1286] ethanol methanol methylol Which is the correct name for? [1287] 2-methylethanol propanol butan-2-ol propan-2-ol Which is the correct name for? [1289] methoxyethethyenethoxymethane that's the right name for? [1289] chloretethenol 2hydroxychlorrethane 2-chloropethane ethanol chloride That's the right name for? [1291] 1-chloropropan-2-ol 2-chloropropan-1-ol 2-chloropropan-1-ol 1-chloropropan-1-ol 2-chloropropan-1-ol 2-chloropropan-1-ol 1-chloropropan-3-ol 3-chloropropan-3-ol 2-ol 1-chloropropan-2-ol 3-chloroptan-2-ol 3-chloroptan-2-ol 2-chlorobutan-2-ol 2-chlorobutan-1-ol 2-chlorobutan-2-ol 3-chlorobutan-2-ol 3-chlorob chlorobutan-1-ol 1-chlorobutan-4-ol 3-chlorobutan-3-ol 3-chlorobutan-2-ol 4-chlorobutan-2-ol 4-chlorobutan-2-ol 4-chlorobutan-3-ol What is the correct name for it? [1297] 4-chlorobutan-2-ol 4-chlorobutan-3-ol What is the correct name for it? [1298] 2-chlorobutan-3-ol 3-chlorobutan-3-ol 3-chlorobutan-2-ol 4-chlorobutan-2-ol 4-chlorobutan-2-ol 4-chlorobutan-3-ol 8-chlorobutan-3-ol 3-chlorobutan-3-ol 8-chlorobutan-3-ol 8-chlorobutan-2-ol 4-chlorobutan-2-ol 4-chlorobutan-3-ol 8-chlorobutan-3-ol 8-chlorobut [1299] 2-chlorobutan-3-ol 1-chlorobutan-2-ol 1-chlorobutan-3-ol 4-chlorobutan-2-ol What is the correct name for it? [130] 1-chlorine-2-methylpropan-2-ol 2-chloro-1-methylpropan-2-ol 2-chloro-1-methylpropan-2-ol 1-chlorobutan-3-ol 4-chlorobutan-3-ol 4-chlorobutan-3-ol 4-chlorobutan-3-ol 4-chlorobutan-2-ol 2-chloro-2-methylpropan-2-ol 2-chloro-1-methylpropan-2-ol 1-chlorobutan-3-ol 4-chlorobutan-3-ol 4-chlorobutan-3-ol 4-chlorobutan-3-ol 4-chlorobutan-2-ol 2-chloro-2-methylpropan-2-ol 1-chlorobutan-3-ol 1-chlorobutan-3-ol 4-chlorobutan-3-ol 4-chlorobutan-3-ol 4-chlorobutan-3-ol 4-chlorobutan-2-ol 2-chlorobutan-2-ol 1-chlorobutan-2-ol 1-chlorobutan-3-ol 4-chlorobutan-3-ol 1-ol 1-chloro-1-methylpropan-2-ol 2-chloro-2-methylpropan-2-ol 2-chloro-2-methylpropan-2-ol Learning Objectives Identify the overall structure for an alcohol. Identify the structural function that classifies alcohols as primary, secondary, or tertiary. Name alcohols with both common names and IUPAC names alcohol is an organic compound with a hydroxyl (OH) functional group on an aliphatic carbon atom. Because OH is the functional group of all alcohols, we often represent alcohols by the general formula ROH, where R is an alkyl group. Alcohols are common in nature. Most people are familiar with ethyl alcohol (ethanol), the active ingredient in alcoholic beverages, but this compounds known as alcohols. The family also includes known substances such as cholesterol and carbohydrates. Methanol (CH3OH) and ethanol (CH3CH2OH) are the first two members of the homologous series of alcohols. Alcohols with one to four carbon atoms are often mentioned by common names, in which the name of the alkyl group is followed by the word alcohol: According to the International Union of Pure and Applied Chemistry (IUPAC), the alcohols are called by changing the end of the parent alkane name to -ol. Here are some basic IUPAC rules for naming alcohols: The longest continuous chain (LCC) of carbon atoms. The chain is numbered from the end closest to the OH group. The number indicating the position of the OH group is predetermined by the name of the parent hydrocarbon, and the -e-end of the parent alkane is replaced by the suffix -ol. (In cyclic alcohols, the carbon atom with the OH group is referred to as C1, but the 1 is not used in the name.) Substitutes are named and numbered as in alkanen. If there is more than one OH group in the same molecule (polyhydroxy alcohols), suffixes such as -diol and triol are used. In these cases, the e-end of the parent alkane is preserved. Figure \(\PageIndex{1}\) shows some examples of how these rules apply. Image \(\PageIndex{1}\): IUPAC Alcohol Rules. The names and structures of some numbered from the end closest to the OH group. That fixes the two methyl (CH3) groups on the sixth and eighth positions. The name is 6,8-dimethyl-8-decanol). Five carbon atoms in the LCC make the compound a derivative of pentane. Two OH groups on the first and fifth carbon atoms make the connection a diol and give the name 1,5-pentanediol (rule 3). Exercise \(\PageIndex{1}\) Give the IUPAC name for each Example \(\PageIndex{2}\) Draw the structure for each connection. 2-hexanol 3-methyl-2-pentanol solution The end -ol gives an alcohol (the OH functional group), and the hex strain tells us that there are six carbon atoms in the LCC. atoms attached to the specific carbon atom attached to the OH group. Alcohols can be grouped into three classes on this basis. A primary (1°) alcohol is an alcohol in which the carbon atom (in red) with the OH group is attached to another carbon atom (in blue). The general formula is RCH2OH. A secondary (2°) alcohol is one in which the carbon atom (in red) with the OH group is attached to two other carbon atoms (in blue). The general formula is R3COH. Table \(\PageIndex{1}\) names and classifies some of the simpler alcohols. Some of the common names reflect the classification of a compound as secondary (secondary) or tertiary (tert-). These designations are not used in the IUPAC alcohol nomenclature system. Note that there are four butyl alcohols in the table, which corresponds to the four butyl groups: the butyl groups (CH3CH2CH2) that was previously discussed, and three others: Table \(\PageIndex{1}\): Classification and Nomenclature of some alcohols Condensed Structural Formula Class of Alcohol common name IUPAC Name CH3OH — methyl alcohol methanol CH3CH2OH primary propyl alcohol 1-propanol (CH3)2CHOH secondary isopropyl alcohol 2-propanol CH3CH2CH2CH2OH primary butyl alcohol 1-butanol CH3CH2CHOHCH3 secondary sec-butyl alcohol 2-methyl-1-propanol (CH3)3COH tertiary tert-butyl alcohol 2-methyl-2-propanol secondary cyclohexyl alcohol cyclohexanol In the IUPAC system, alcohols are called by changing the end of the parent alkane's name to -ol. Alcohols are classified according to the carbon atoms attached to the carbon atom attached to the OH group. Concept Review Exercises Is Is Isobutyl Alcohol Primary, Secondary, or Tertiary? Explain. What is the LCC in 2-ethyl-1-hexanol? What is taken if the LCC is in naming the compound? Explain. primary; the carbon atom or tertiary. methyl-2-butanol; tertiary tertiary

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