

1.56

- (a) $\text{CH}_3\text{CH}_2\text{CH}_2\text{CH}_2\text{OH}$ 1-butanol $\text{CH}_3\text{CH}_2\underset{\text{OH}}{\text{CH}}\text{CH}_3$ 2-butanol $\text{CH}_3\underset{\text{CH}_2\text{OH}}{\text{CH}}\text{CH}_3$ 2-methylpropanol $\text{CH}_3\overset{\text{OH}}{\underset{\text{CH}_3}{\text{C}}}\text{CH}_3$ 2-methyl-2-propanol cf. *n*-butyl alcohol, *sec*-butyl alcohol, isobutyl alcohol, *tert*-butyl alcohol
- (b) $\text{CH}_3\text{—O—CH}_2\text{CH}_3$ methoxyethane (ethyl methyl ether)
- (c) $\text{CH}_3\text{CH}_2\text{CHO}$ propanal $\left(\text{CH}_3\text{CH}_2\text{—}\overset{\text{O}}{\parallel}{\text{C}}\text{—H} \right)$ 注意：アルデヒドは炭素鎖の末端。
- (d) $\text{CH}_3\text{—}\overset{\text{O}}{\parallel}{\text{C}}\text{—CH}_2\text{CH}_3$ butanone 注意：ケトン は炭素鎖の中。1-butanoneは存在しない (butanalという)。
- (e) $\text{CH}_3\text{CH}_2\text{CH}_2\text{—}\overset{\text{O}}{\parallel}{\text{C}}\text{—OH}$ butanoic acid (butyric acid) $\text{CH}_3\underset{\text{C—OH}}{\underset{\text{O}}{\parallel}}{\text{CH}}\text{CH}_3$ methylpropionic acid (isobutyric acid) 注意：カルボン酸は炭素鎖の末端。
- (f) $\text{CH}_3\text{CH}_2\text{CH}_2\text{—}\overset{\text{O}}{\parallel}{\text{C}}\text{—O—CH}_3$ methyl butyrate $\text{CH}_3\underset{\text{CH}_3}{\text{CH}}\text{—}\overset{\text{O}}{\parallel}{\text{C}}\text{—O—CH}_3$ methyl methylpropionate (methyl isobutyrate)
- $\text{CH}_3\text{CH}_2\text{—}\overset{\text{O}}{\parallel}{\text{C}}\text{—O—CH}_2\text{CH}_3$ ethyl propionate
- $\text{CH}_3\text{—}\overset{\text{O}}{\parallel}{\text{C}}\text{—O—CH}_2\text{CH}_2\text{CH}_3$ propyl acetate $\text{CH}_3\text{—}\overset{\text{O}}{\parallel}{\text{C}}\text{—O—}\underset{\text{CH}_3}{\text{CH}}\text{CH}_3$ *iso*-propyl acetate 注意：ギ酸エステルも忘れずに。
- $\text{H—}\overset{\text{O}}{\parallel}{\text{C}}\text{—O—CH}_2\text{CH}_2\text{CH}_2\text{CH}_3$ butyl formate $\text{H—}\overset{\text{O}}{\parallel}{\text{C}}\text{—O—}\underset{\text{CH}_3}{\text{CH}}\text{CH}_2\text{CH}_3$ 1-methylpropyl formate (*sec*-butyl formate) $\text{H—}\overset{\text{O}}{\parallel}{\text{C}}\text{—O—CH}_2\underset{\text{CH}_3}{\text{CH}}\text{CH}_3$ 2-methylpropyl formate (*isobutyl* formate) $\text{H—}\overset{\text{O}}{\parallel}{\text{C}}\text{—O—}\underset{\text{CH}_3}{\underset{\text{CH}_3}{\text{C}}}\text{CH}_3$ 1,1-dimethylethyl formate (*tert*-butyl formate)
- (g) (a)を見よ。
- (h) $\text{CH}_3\text{CH}_2\text{CH}_2\text{—NH}_2$ 1-aminopropane (*n*-propylamine) $\text{CH}_3\underset{\text{CH}_3}{\text{CH}}\text{—NH}_2$ 2-aminopropane (*isopropylamine*)
- $\text{CH}_3\text{CH}_2\text{—}\underset{\text{H}}{\text{N}}\text{—CH}_3$ methylaminoethane 注意：第一級アミン、第二級アミン、第三級アミンがあります。
- $\text{CH}_3\text{—}\underset{\text{CH}_3}{\text{N}}\text{—CH}_3$ trimethylamine