

# The Thanksgiving Chemistry Bingo

hexanone	hexene	presents dipole-dipole	butanamide	dipropyl ether
butyne	hexylamine	pentylamine	strong/wide 3400 cm <sup>-1</sup> in IR	methyl propanoate
4 signals in 1H-NMR	5 signals in 1H-NMR	propene	butanol	methyl butanoate
propyne	methyl ethanoate	propanoic acid	hexanal	ethanamide
hexanoic acid	pentene	ethanal	methylamine	butene

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dipropyl ether	propene	methyl ethanoate	hexanol	pentanal
hexene	pentyne	hexanal	ethanoic acid	methyl butanoate
hexyne	ethylamine	5 signals in $^1\text{H-NMR}$	methyl hexanoate	hexylamine
diethyl ether	propanol	methanol	6 signals in $^1\text{H-NMR}$	butanal
ethanal	methyl methanoate	butanone	7 signals in $^1\text{H-NMR}$	hexanoic acid

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hexanone	medium/sharp 2200 cm <sup>-1</sup> in IR	5 signals in 1H-NMR	ethanol	pentanone
4 signals in 1H-NMR	propene	butanone	pentene	methanamide
methyl pentanoate	pentanal	3 signals in 1H-NMR	presents dipole-dipole	7 signals in 1H-NMR
propanone	propanamide	butylamine	dimethyl ether	methyl hexanoate
pentylamine	ethanoic acid	hexyne	methyl butanoate	methylamine

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2 signals in $^1\text{H-NMR}$	butanoic acid	butyne	pentanol	propylamine
butanol	methanol	methyl ethanoate	dipropyl ether	methyl methanoate
methyl butanoate	6 signals in $^1\text{H-NMR}$	pentene	diethyl ether	ethanal
hexanone	hexanamide	hexene	5 signals in $^1\text{H-NMR}$	butylamine
3 signals in $^1\text{H-NMR}$	propyne	methyl hexanoate	propanamide	4 signals in $^1\text{H-NMR}$

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propanol	methanal	pentanol	pentanone	hexylamine
strong/wide 3400 cm <sup>-1</sup> in IR	hexene	propanamide	butanol	dipropyl ether
ethyne	ethanal	hexyne	ethanamide	7 signals in 1H-NMR
methyl propanoate	methyl methanoate	3 signals in 1H-NMR	methylamine	pentene
ethanoic acid	hexanal	butanone	methanoic acid	4 signals in 1H-NMR

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methyl hexanoate	pentylamine	methyl pentanoate	pentanol	hexanol
hexylamine	hexanoic acid	butanone	ethanal	presents h-bonds
hexyne	methyl propanoate	propene	propylamine	ethene
butanol	medium/sharp 2200 cm <sup>-1</sup> in IR	6 signals in <sup>1</sup> H-NMR	methyl methanoate	pentanone
2 signals in <sup>1</sup> H-NMR	pentanoic acid	hexene	propanal	butene

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hexanone	hexyne	pentanol	ethanamide	presents dipole-dipole
methyl ethanoate	methanal	methyl hexanoate	methyl methanoate	methylamine
presents London forces	propanone	pentanoic acid	hexanamide	methyl butanoate
hexanal	pentyne	diethyl ether	hexanol	propene
ethyne	ethanal	dimethyl ether	butene	strong/wide 3400 cm <sup>-1</sup> in IR

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propyne	ethanol	propanal	pentene	ethene
methyl butanoate	diethyl ether	hexylamine	hexanol	methanol
ethylamine	3 signals in $^1\text{H-NMR}$	dimethyl ether	propanamide	pentylamine
methylamine	4 signals in $^1\text{H-NMR}$	strong/sharp $1750\text{ cm}^{-1}$ in IR	methyl hexanoate	pentyne
methanal	butanamide	strong/wide $3400\text{ cm}^{-1}$ in IR	hexanoic acid	ethanamide

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hexanal	butanoic acid	strong/wide 3400 $\text{cm}^{-1}$ in IR	1 signal in $^1\text{H}$ - NMR	5 signals in $^1\text{H}$ -NMR
butanol	dimethyl ether	pentanol	methanal	pentyne
7 signals in $^1\text{H}$ -NMR	ethanamide	ethylamine	6 signals in $^1\text{H}$ -NMR	propanol
propylamine	hexanol	butene	methyl methanoate	propanamide
methyl pentanoate	pentylamine	3 signals in $^1\text{H}$ -NMR	presents London forces	presents h- bonds

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3 signals in $^1\text{H-NMR}$	propanal	ethylamine	hexanoic acid	methanamide
medium/sharp $2200\text{ cm}^{-1}$ in IR	hexanal	ethanol	7 signals in $^1\text{H-NMR}$	pentanol
hexanone	presents h-bonds	hexanol	strong/wide $3400\text{ cm}^{-1}$ in IR	hexyne
propanol	pentyne	methanoic acid	4 signals in $^1\text{H-NMR}$	presents dipole-dipole
methylamine	methyl propanoate	1 signal in $^1\text{H-NMR}$	propanamide	butanone

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pentanamide	propyne	pentyne	hexylamine	hexene
dipropyl ether	4 signals in $^1\text{H-NMR}$	hexyne	propene	strong/sharp $1750\text{ cm}^{-1}$ in IR
hexanone	methanal	5 signals in $^1\text{H-NMR}$	methylamine	presents London forces
methyl pentanoate	hexanol	propanal	methyl hexanoate	propanamide
methyl methanoate	ethanoic acid	butyne	hexanoic acid	butanol

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medium/sharp 2200 cm <sup>-1</sup> in IR	methanoic acid	hexanoic acid	pentanoic acid	pentanamide
propylamine	diethyl ether	strong/sharp 1750 cm <sup>-1</sup> in IR	2 signals in 1H-NMR	strong/wide 3400 cm <sup>-1</sup> in IR
dipropyl ether	dimethyl ether	propanal	presents London forces	propanol
ethylamine	5 signals in 1H-NMR	ethanal	4 signals in 1H-NMR	butyne
butylamine	pentylamine	methyl ethanoate	methyl propanoate	butanone

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3 signals in $^1\text{H-NMR}$	4 signals in $^1\text{H-NMR}$	methanol	propene	methyl hexanoate
pentyne	strong/wide $3400\text{ cm}^{-1}$ in IR	butanoic acid	pentanone	methyl butanoate
diethyl ether	6 signals in $^1\text{H-NMR}$	butylamine	hexanone	hexanoic acid
hexanal	methyl propanoate	ethanamide	propanoic acid	propanal
butanamide	pentanoic acid	pentylamine	ethanoic acid	propanol

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methyl methanoate	strong/wide 3400 cm <sup>-1</sup> in IR	pentanamide	pentanone	2 signals in <sup>1</sup> H-NMR
methyl propanoate	dimethyl ether	pentanal	butanone	butanal
presents London forces	6 signals in <sup>1</sup> H-NMR	1 signal in <sup>1</sup> H-NMR	methyl pentanoate	ethanoic acid
hexyne	diethyl ether	methyl hexanoate	5 signals in <sup>1</sup> H-NMR	pentanol
propylamine	propyne	butene	7 signals in <sup>1</sup> H-NMR	hexanal

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propanoic acid	ethanal	methyl butanoate	3 signals in $^1\text{H-NMR}$	hexanone
methanamide	propanamide	6 signals in $^1\text{H-NMR}$	2 signals in $^1\text{H-NMR}$	pentanoic acid
ethyne	methyl propanoate	1 signal in $^1\text{H-NMR}$	ethylamine	propanol
propene	butyne	ethene	methyl ethanoate	5 signals in $^1\text{H-NMR}$
medium/sharp $2200\text{ cm}^{-1}$ in IR	hexanamide	methanal	presents London forces	ethanol

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4 signals in $^1\text{H-NMR}$	ethanamide	propylamine	butanol	hexanoic acid
butanoic acid	5 signals in $^1\text{H-NMR}$	pentyne	2 signals in $^1\text{H-NMR}$	butene
propanamide	propanone	1 signal in $^1\text{H-NMR}$	methyl butanoate	butyne
hexanal	ethene	ethanoic acid	ethyne	propanol
butanal	diethyl ether	strong/wide $3400\text{ cm}^{-1}$ in IR	hexylamine	butanamide

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methanol	3 signals in $^1\text{H-NMR}$	hexyne	hexanal	methyl pentanoate
hexylamine	pentyne	dipropyl ether	pentene	propylamine
7 signals in $^1\text{H-NMR}$	propanamide	strong/wide $3400\text{ cm}^{-1}$ in IR	presents dipole-dipole	ethanoic acid
methyl propanoate	hexanone	ethene	methyl butanoate	pentanamide
ethanamide	presents h-bonds	diethyl ether	butylamine	butyne

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butyne	methyl pentanoate	presents h-bonds	hexanal	methylamine
presents dipole-dipole	methyl propanoate	methyl hexanoate	ethanamide	methanol
diethyl ether	dipropyl ether	ethene	propyne	butanamide
pentanal	methanal	pentene	propanoic acid	butanal
methyl methanoate	methyl ethanoate	pentyne	pentanone	propene

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medium/sharp 2200 cm <sup>-1</sup> in IR	propylamine	6 signals in 1H-NMR	propanol	butene
1 signal in 1H- NMR	butanamide	hexanal	propanal	pentyne
ethylamine	hexylamine	pentanal	dipropyl ether	pentene
pentanol	propanamide	butyne	methyl methanoate	ethanal
ethanol	hexene	strong/wide 3400 cm <sup>-1</sup> in IR	hexyne	methanal

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methanal	butanal	presents dipole-dipole	hexanone	butanone
pentene	hexanol	propanone	ethene	6 signals in $^1\text{H-NMR}$
ethanoic acid	1 signal in $^1\text{H-NMR}$	3 signals in $^1\text{H-NMR}$	propyne	dimethyl ether
pentanoic acid	methyl hexanoate	butylamine	propanol	methyl pentanoate
propanoic acid	ethylamine	methanoic acid	hexanamide	ethyne

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methyl butanoate	6 signals in $^1\text{H-NMR}$	ethyne	pentyne	propanoic acid
ethene	methyl pentanoate	medium/sharp $2200\text{ cm}^{-1}$ in IR	strong/sharp $1750\text{ cm}^{-1}$ in IR	pentanamide
pentanone	7 signals in $^1\text{H-NMR}$	strong/wide $3400\text{ cm}^{-1}$ in IR	hexanamide	presents London forces
butylamine	dimethyl ether	propylamine	hexyne	1 signal in $^1\text{H-NMR}$
propanol	butyne	butanamide	ethylamine	methyl propanoate

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hexylamine	propanal	pentanone	methyl hexanoate	presents h-bonds
pentyne	propanamide	diethyl ether	butylamine	pentanal
hexanamide	hexanone	pentylamine	ethanol	hexyne
propyne	methyl methanoate	butanal	7 signals in $^1\text{H-NMR}$	methyl butanoate
hexanal	6 signals in $^1\text{H-NMR}$	hexanoic acid	propanol	methanal

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ethylamine	propene	methylamine	7 signals in $^1\text{H-NMR}$	3 signals in $^1\text{H-NMR}$
dipropyl ether	hexanamide	ethyne	butanoic acid	pentanamide
presents dipole-dipole	butanol	butene	strong/sharp $1750\text{ cm}^{-1}$ in IR	methyl propanoate
methyl hexanoate	propanoic acid	5 signals in $^1\text{H-NMR}$	butylamine	6 signals in $^1\text{H-NMR}$
hexylamine	methyl ethanoate	propanal	methyl methanoate	strong/wide $3400\text{ cm}^{-1}$ in IR

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hexene	5 signals in $^1\text{H-NMR}$	3 signals in $^1\text{H-NMR}$	ethanol	propylamine
butene	hexanal	pentyne	presents h-bonds	butyne
propene	methyl propanoate	pentanal	hexanone	pentanamide
dipropyl ether	methanamide	butylamine	butanol	methyl methanoate
methyl hexanoate	butanal	hexylamine	ethyne	dimethyl ether

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propanal	methyl methanoate	methanal	butene	4 signals in $^1\text{H-NMR}$
butyne	pentanol	6 signals in $^1\text{H-NMR}$	methanoic acid	pentanone
pentanamide	dipropyl ether	methanol	methanamide	presents dipole-dipole
ethanamide	pentylamine	hexanamide	strong/sharp $1750\text{ cm}^{-1}$ in IR	7 signals in $^1\text{H-NMR}$
butanoic acid	medium/sharp $2200\text{ cm}^{-1}$ in IR	butanone	propylamine	ethyne

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propyne	propylamine	pentyne	5 signals in $^1\text{H-NMR}$	strong/sharp $1750\text{ cm}^{-1}$ in IR
methyl pentanoate	pentanol	propanoic acid	ethyne	propanamide
1 signal in $^1\text{H-NMR}$	7 signals in $^1\text{H-NMR}$	methyl propanoate	propanal	hexene
presents London forces	diethyl ether	ethylamine	dipropyl ether	hexanone
ethanol	ethanoic acid	6 signals in $^1\text{H-NMR}$	pentene	butanal

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hexanone	methyl ethanoate	propanol	hexylamine	butanoic acid
medium/sharp 2200 cm <sup>-1</sup> in IR	hexanol	presents h-bonds	presents dipole-dipole	ethene
butanal	2 signals in <sup>1</sup> H-NMR	pentyne	hexanamide	propene
5 signals in <sup>1</sup> H-NMR	7 signals in <sup>1</sup> H-NMR	methanol	ethylamine	propanamide
pentanoic acid	butanone	methyl pentanoate	butyne	hexyne

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ethanamide	methyl methanoate	medium/sharp 2200 cm <sup>-1</sup> in IR	hexanoic acid	methyl propanoate
hexanal	presents h-bonds	methyl pentanoate	propanamide	propanol
hexyne	dimethyl ether	strong/wide 3400 cm <sup>-1</sup> in IR	butanone	dipropyl ether
hexylamine	pentanone	ethene	propene	hexanamide
pentylamine	hexanol	butanoic acid	pentanoic acid	propanone

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strong/wide 3400 cm <sup>-1</sup> in IR	hexanoic acid	hexylamine	hexanal	methyl butanoate
propanal	pentylamine	hexyne	dipropyl ether	2 signals in 1H-NMR
butylamine	strong/sharp 1750 cm <sup>-1</sup> in IR	propanone	methyl ethanoate	ethanol
propyne	presents h- bonds	ethyne	ethylamine	butyne
butanol	pentanol	3 signals in 1H-NMR	methanoic acid	pentanoic acid

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methanol	hexanone	pentanoic acid	methyl propanoate	propyne
diethyl ether	hexanoic acid	pentene	hexylamine	ethylamine
propylamine	dipropyl ether	presents dipole-dipole	butene	pentanal
propanol	methanal	propanamide	propene	dimethyl ether
butanal	5 signals in $^1\text{H-NMR}$	pentyne	butyne	1 signal in $^1\text{H-NMR}$

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6 signals in $^1\text{H-NMR}$	dimethyl ether	presents London forces	methanoic acid	pentanone
pentanal	ethanal	ethyne	hexene	diethyl ether
propanoic acid	pentene	dipropyl ether	butene	hexyne
medium/sharp $2200\text{ cm}^{-1}$ in IR	pentanamide	methyl ethanoate	hexanamide	butanoic acid
methyl propanoate	presents h-bonds	hexanal	pentanoic acid	propanol

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methyl butanoate	4 signals in $^1\text{H-NMR}$	diethyl ether	methyl ethanoate	hexanamide
ethylamine	strong/sharp $1750\text{ cm}^{-1}$ in IR	hexanone	methanol	dimethyl ether
hexylamine	butyne	methyl hexanoate	2 signals in $^1\text{H-NMR}$	methyl methanoate
presents dipole-dipole	hexyne	methylamine	pentanamide	methyl propanoate
methanoic acid	ethanoic acid	ethanamide	methyl pentanoate	propene

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pentanol	7 signals in $^1\text{H-NMR}$	methyl propanoate	ethanamide	methyl methanoate
hexanal	hexanamide	dimethyl ether	strong/sharp $1750\text{ cm}^{-1}$ in IR	ethene
propanoic acid	2 signals in $^1\text{H-NMR}$	propene	methanol	propyne
pentanal	hexene	ethylamine	pentene	methyl butanoate
methyl hexanoate	pentanone	butene	propylamine	presents London forces

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pentanamide	butene	medium/sharp 2200 cm <sup>-1</sup> in IR	propylamine	hexanol
hexanoic acid	2 signals in 1H-NMR	hexene	5 signals in 1H-NMR	pentylamine
hexanal	propanone	butanol	propanal	presents London forces
ethanal	strong/sharp 1750 cm <sup>-1</sup> in IR	methanamide	pentyne	propanoic acid
propene	presents h- bonds	methyl hexanoate	methyl butanoate	ethylamine

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hexylamine	strong/sharp 1750 cm <sup>-1</sup> in IR	pentylamine	4 signals in 1H-NMR	3 signals in 1H-NMR
medium/sharp 2200 cm <sup>-1</sup> in IR	ethene	ethyne	methyl butanoate	propanol
2 signals in 1H-NMR	propanal	propylamine	pentyne	propanone
methyl pentanoate	ethanamide	methylamine	pentanoic acid	hexene
hexanal	butene	ethylamine	methanoic acid	propanamide

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ethanal	pentylamine	hexanol	methyl methanoate	hexyne
propanal	ethyne	7 signals in $^1\text{H-NMR}$	pentene	2 signals in $^1\text{H-NMR}$
methyl ethanoate	hexanamide	methanol	methylamine	butanone
butanol	hexylamine	butene	pentanol	propanone
4 signals in $^1\text{H-NMR}$	strong/wide $3400\text{ cm}^{-1}$ in IR	6 signals in $^1\text{H-NMR}$	hexanal	pentanoic acid

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propanoic acid	dipropyl ether	5 signals in $^1\text{H-NMR}$	methyl ethanoate	pentanamide
3 signals in $^1\text{H-NMR}$	methyl methanoate	ethyne	presents London forces	2 signals in $^1\text{H-NMR}$
4 signals in $^1\text{H-NMR}$	hexanamide	7 signals in $^1\text{H-NMR}$	ethanal	pentylamine
ethanoic acid	propyne	ethanol	diethyl ether	methylamine
pentene	methyl pentanoate	ethanamide	pentanone	propanamide

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4 signals in $^1\text{H-NMR}$	hexanone	ethyne	5 signals in $^1\text{H-NMR}$	ethanamide
propene	hexanoic acid	methyl hexanoate	propanone	medium/sharp $2200\text{ cm}^{-1}$ in IR
propyne	propanoic acid	ethanoic acid	butylamine	pentylamine
methyl propanoate	pentanol	pentanone	7 signals in $^1\text{H-NMR}$	butene
pentanal	butanamide	6 signals in $^1\text{H-NMR}$	ethene	butanal

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ethyne	ethene	6 signals in $^1\text{H-NMR}$	ethylamine	hexanol
hexanamide	hexanone	methylamine	dimethyl ether	methyl pentanoate
pentanol	hexyne	3 signals in $^1\text{H-NMR}$	2 signals in $^1\text{H-NMR}$	medium/sharp $2200\text{ cm}^{-1}$ in IR
propene	propanone	butanamide	hexanoic acid	propanamide
pentanal	presents London forces	butene	ethanamide	presents dipole-dipole

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propanol	methyl methanoate	methanoic acid	1 signal in $^1\text{H-NMR}$	5 signals in $^1\text{H-NMR}$
hexene	ethene	ethanal	ethanol	ethanamide
pentylamine	methanol	pentanal	presents London forces	propyne
pentene	butene	7 signals in $^1\text{H-NMR}$	propanal	hexanol
pentanoic acid	hexanamide	hexyne	methanamide	diethyl ether

