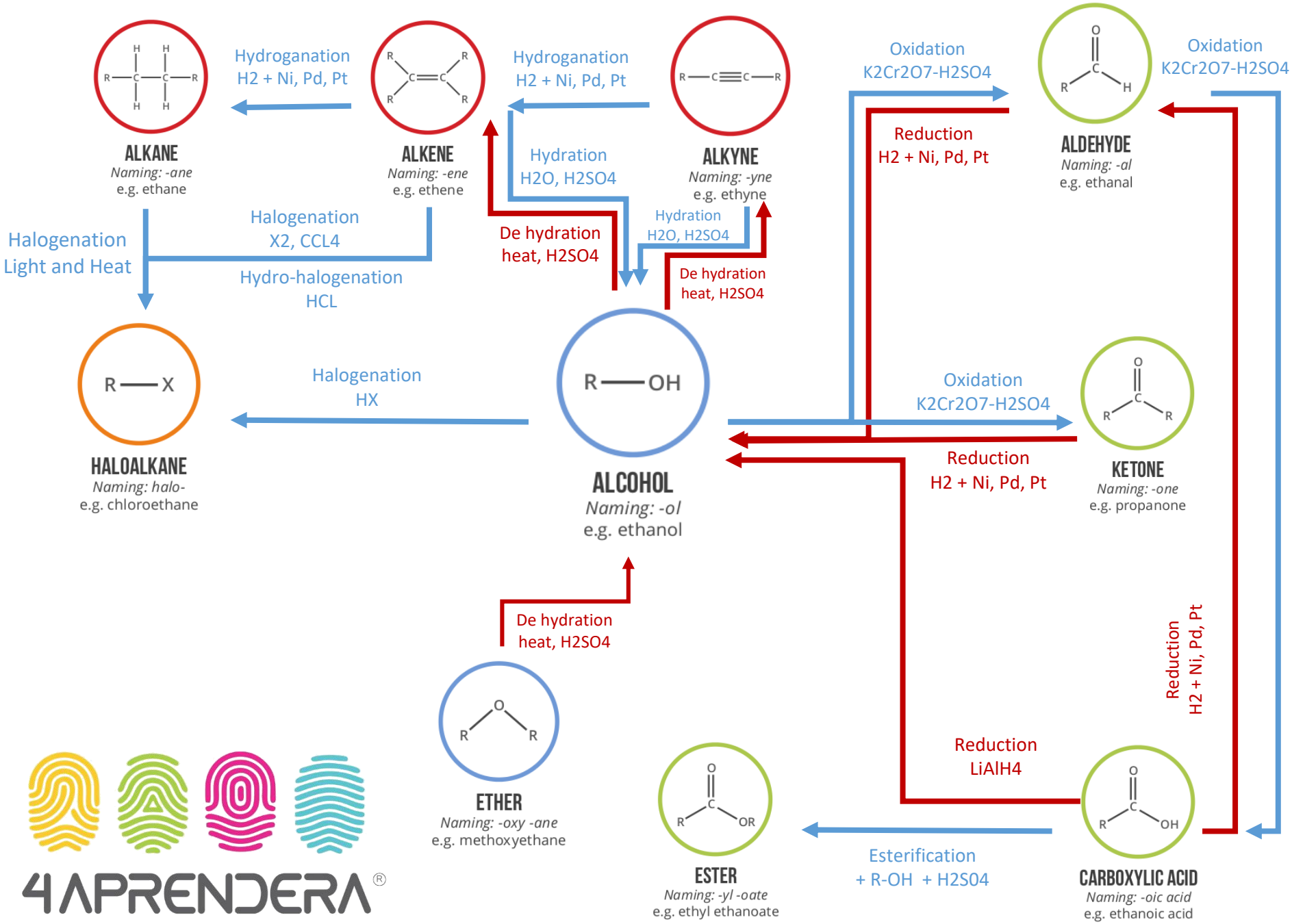
ALKANE
Naming: -ane
e.g. ethane
Hydroganation
H2 + Ni, Pd, Pt
ALKENE
Naming: -ene
e.g. ethene
Hydroganation
H2 + Ni, Pd, Pt
ALKYNE
Naming: -yne
e.g. ethyne
Oxidation
K2Cr2O7-H2SO4
ALDEHYDE
Naming: -al
e.g. ethanal
Oxidation
K2Cr2O7-H2SO4
Reduction
H2 + Ni, Pd, Pt
Hydration
H2O, H2SO4
Halogenation
X2, CCL4
Halogenation
Light and Heat
Hydro-halogenation
HCL
De hydration
heat, H2SO4
Hydration
H2O, H2SO4
De hydration
heat, H2SO4
HALOALKANE
Naming: halo-
e.g. chloroethane
Halogenation
HX
ALCOHOL
Naming: -ol
e.g. ethanol
Oxidation
K2Cr2O7-H2SO4
KETONE
Naming: -one
e.g. propanone
Reduction
H2 + Ni, Pd, Pt
De hydration
heat, H2SO4
ETHER
Naming: -oxy -ane
e.g. methoxyethane
Reduction
H2 + Ni, Pd, Pt
Reduction
LiAlH4
ESTER
Naming: -yl -oate
e.g. ethyl ethanoate
Esterification
+ R-OH + H2S04
CARBOXYLIC ACID
Naming: -oic acid
e.g. ethanoic acid
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