**Level 3 Organic Reagents**

MnO4-/H+

**DIOL**

MnO4-/H+

Cr2O72-/H+

Reflux

dil. H2SO4

**1º**

**CARBOXYLIC ACID**

**ALCOHOL**

**ALKENE**

MnO4-/H+

Cr2O72-/H+

Distil

+

conc. H2SO4

MnO4-/H+

Cr2O72-/H+

Tollens, Ag+

Fehlings, Cu2+

Benedicts, Cu2+

**2º**

**3**º

HBr, HCl, Br2

NaBH4

conc HCl

SOCl2

**ALDEHYDE**

KOH(aq)NaOH(aq)

KMnO4/H+

K2Cr2O7/H+

KOH (alcoholic)

SOCl2

**KETONE**

**HALOALKANE**

H2O

NH3 (heat)

conc. NH3 (alcoholic)

+

conc H2SO4

**ACYL CHLORIDE**

**ESTER**

**AMINE**

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conc NH3 (alcoholic)

**AMIDE**