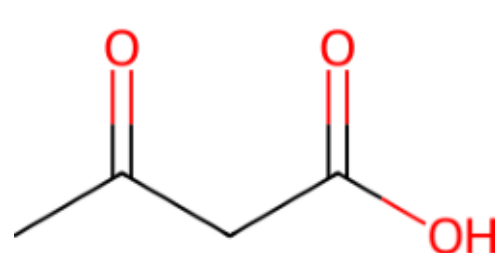
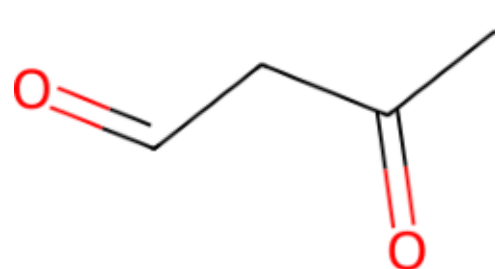


Rank 1
Atomic Economy 100.0%
Pathway by-product 0



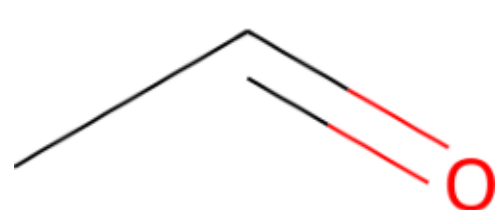
+HYDROGEN-PEROXIDE -WATER -O2

rule0147_2

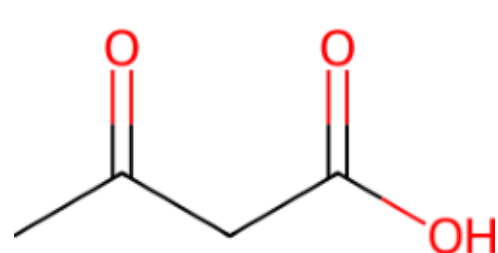


+CO-A -ACETYL-COA

rule0349_1

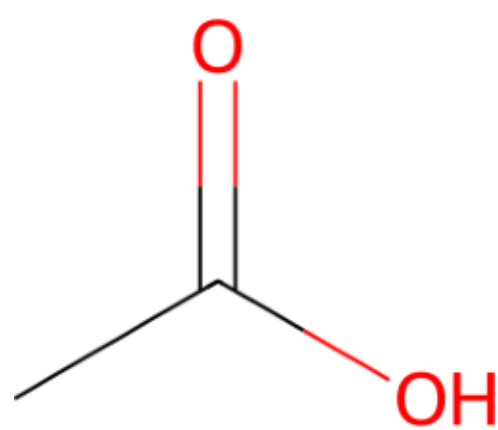


Rank 2
Atomic Economy 100.0%
Pathway by-product 0



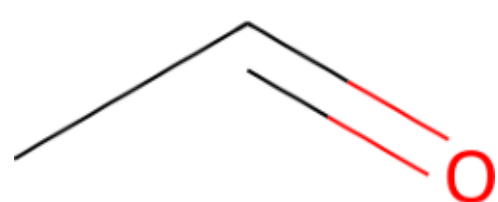
+WATER

rule0085_2

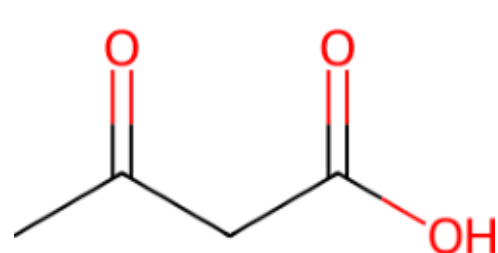


+HYDROGEN-PEROXIDE -WATER -O2

rule0147_2

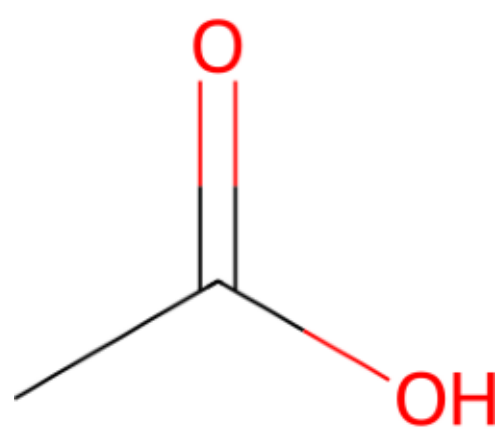


Rank 3
Atomic Economy 100.0%
Pathway by-product 0



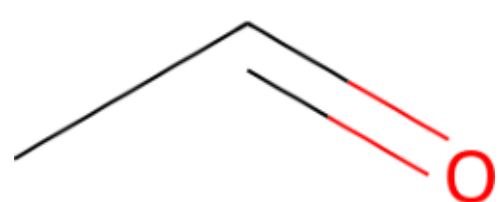
+WATER

rule0085_2

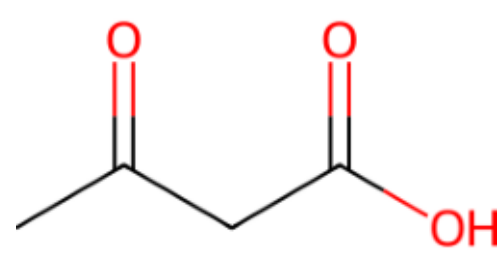


+NADP +WATER -NADPH -O2

rule0005_61

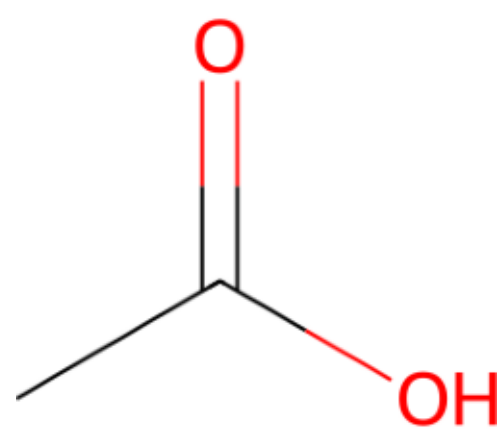


Rank 4
Atomic Economy 100.0%
Pathway by-product 0



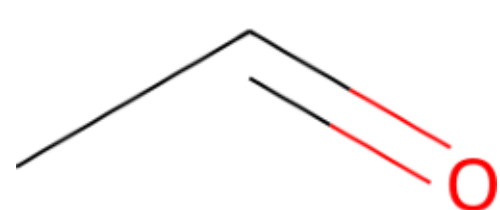
+WATER

rule0085_2

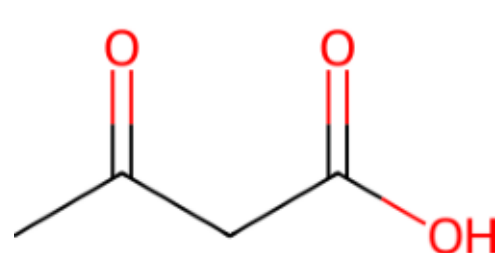


+NADPH -NADP -WATER

rule0025_38

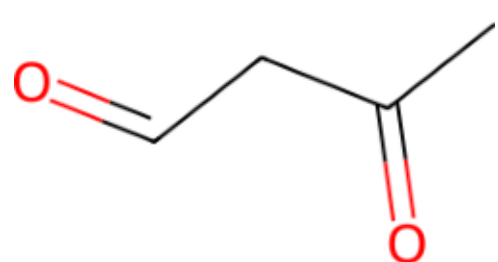


Rank 5
Atomic Economy 100.0%
Pathway by-product 0



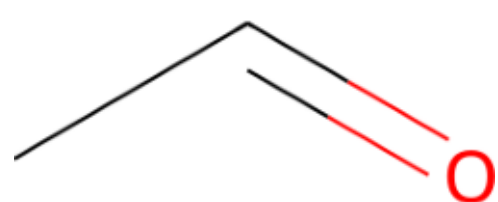
+NADP +WATER -NADPH -O2

rule0005_60

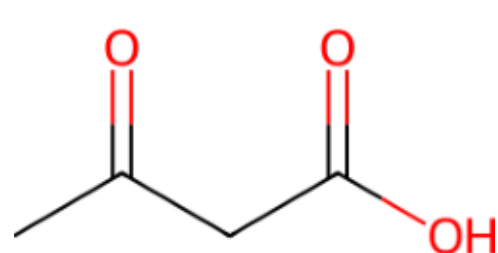


+CO-A -ACETYL-COA

rule0349_1

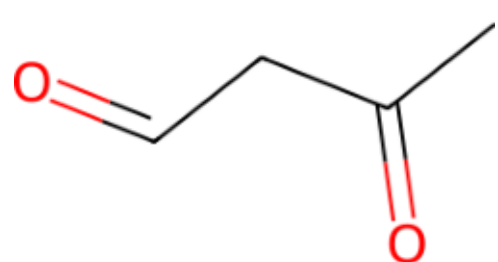


Rank 6
Atomic Economy 100.0%
Pathway by-product 0



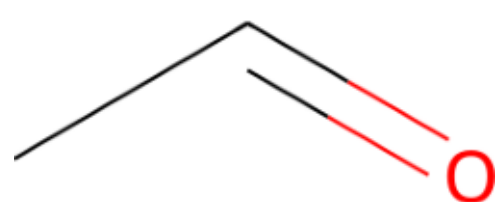
+NADPH -NADP -WATER

rule0025_34

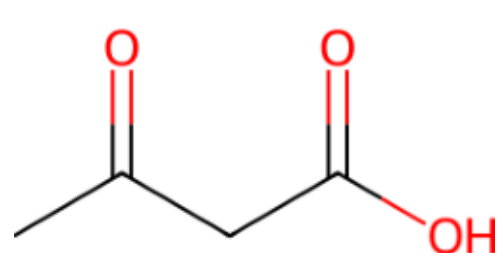


+CO-A -ACETYL-COA

rule0349_1

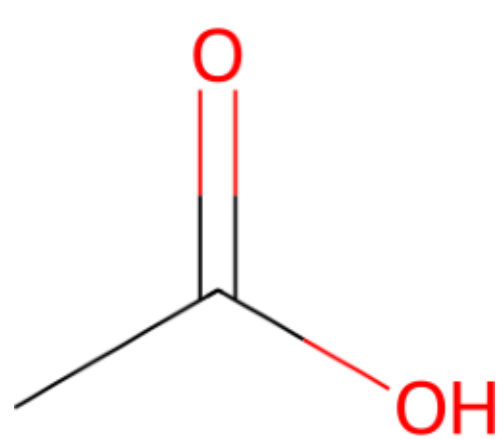


Rank 7
Atomic Economy 100.0%
Pathway by-product 0



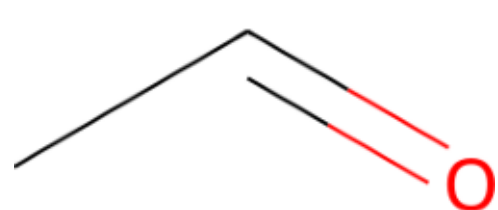
+CO-A -ACETYL-COA

rule0349_1

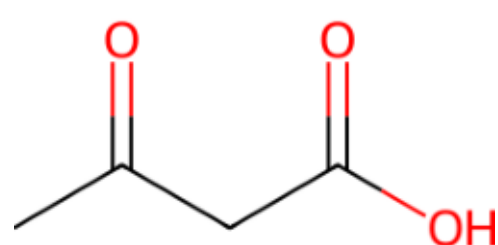


+HYDROGEN-PEROXIDE -WATER -O2

rule0147_2

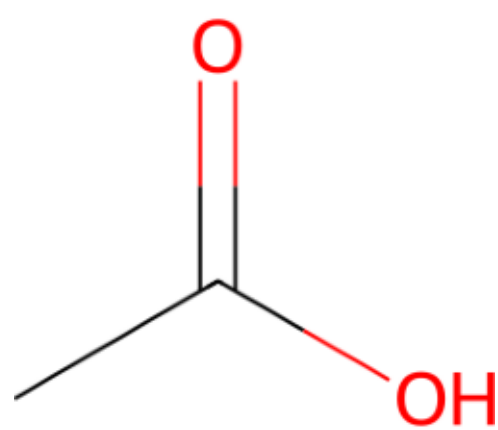


Rank 8
Atomic Economy 100.0%
Pathway by-product 0



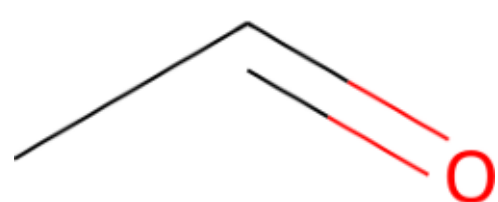
+CO-A -ACETYL-COA

rule0349_1

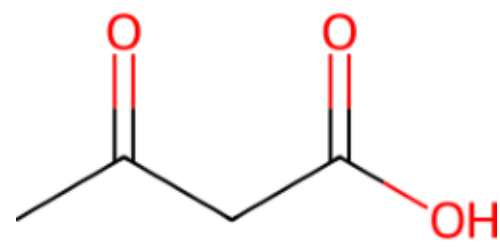


+NADP +WATER -NADPH -O2

rule0005_61

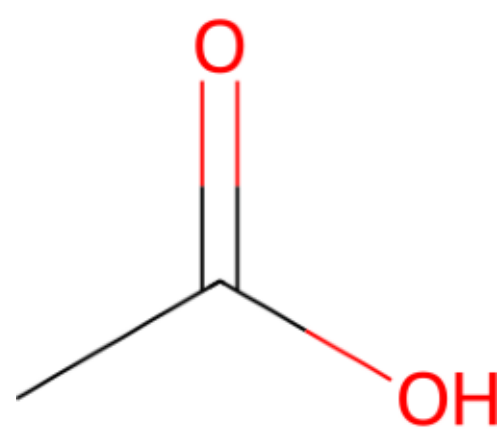


Rank 9
Atomic Economy 100.0%
Pathway by-product 0



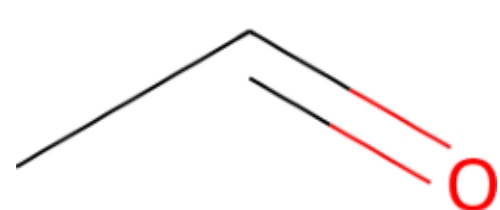
+CO-A -ACETYL-COA

rule0349_1

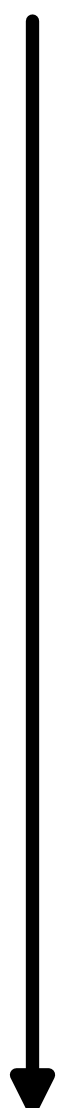
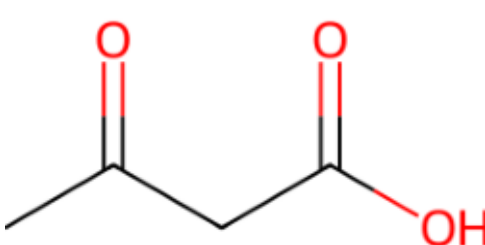


+NADPH -NADP -WATER

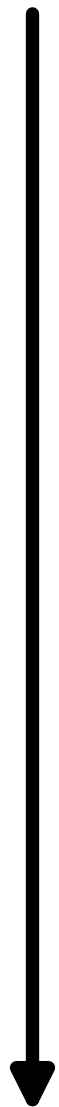
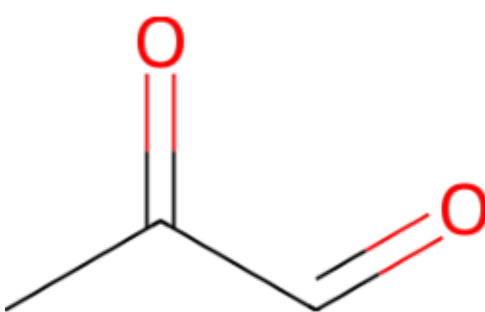
rule0025_38



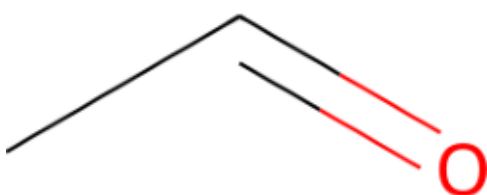
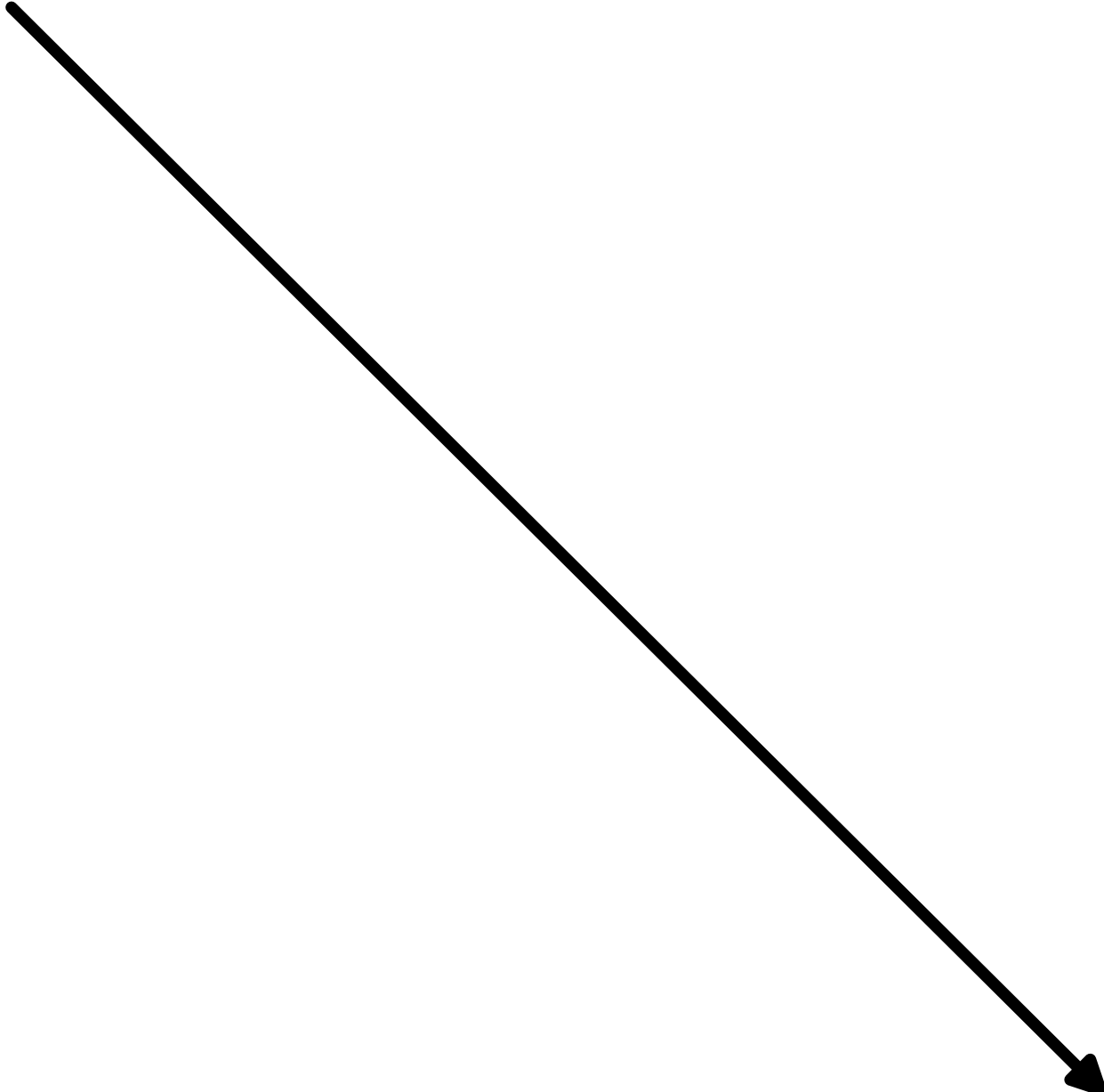
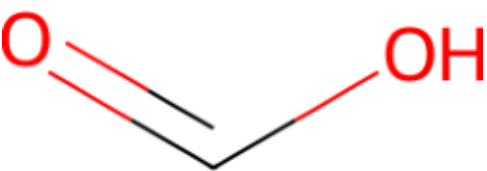
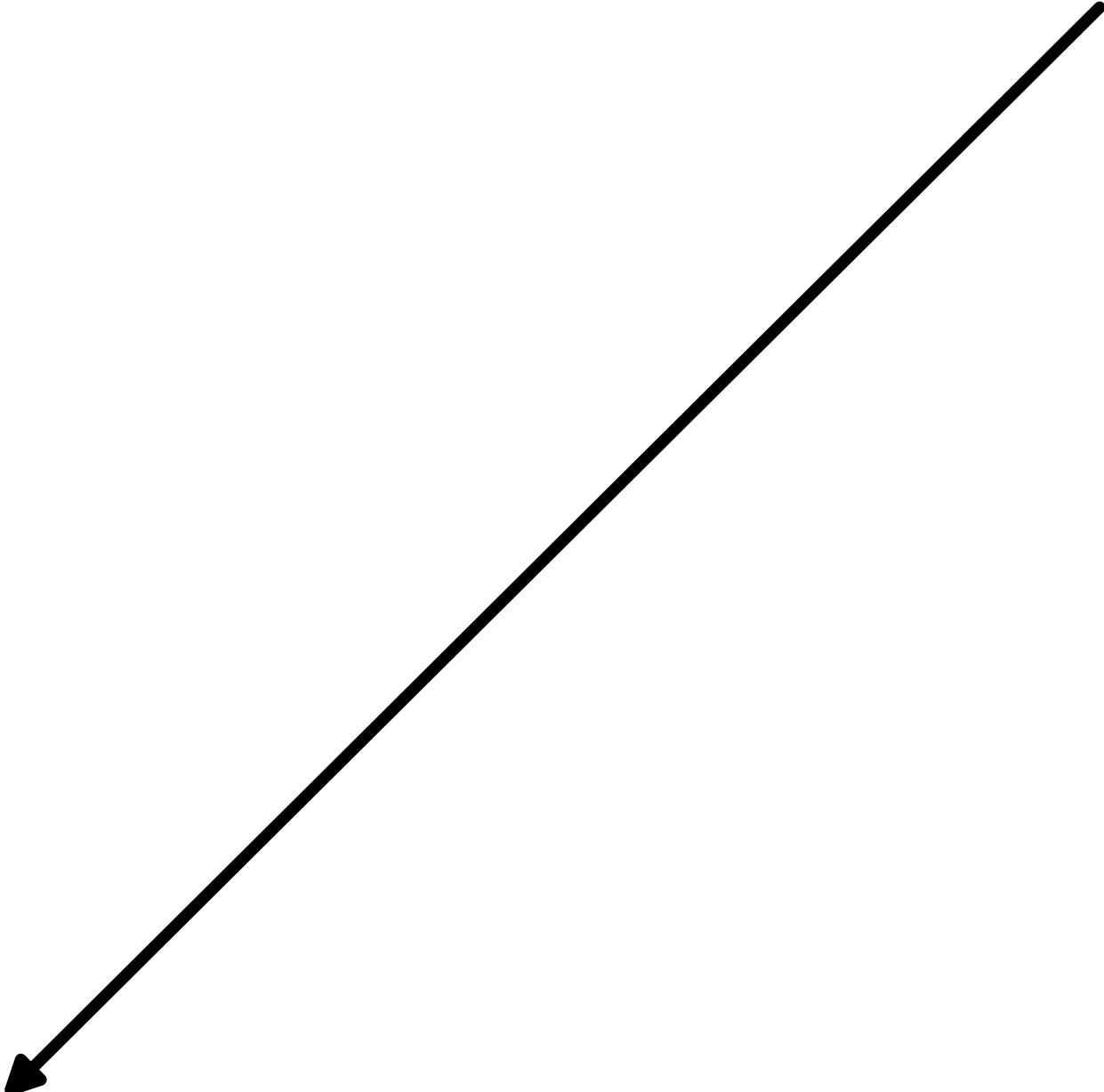
Rank 10
Atomic Economy 48.9%
Pathway by-product 0



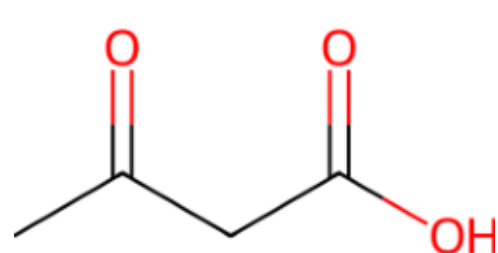
+O2 -WATER -CARBON-DIOXIDE
rule0352_2



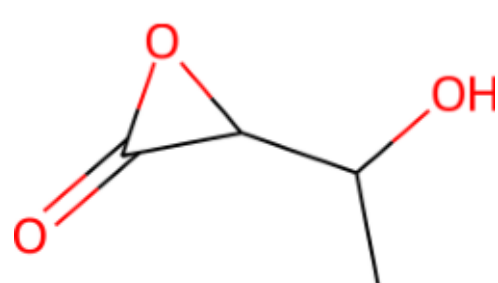
+WATER
rule0085_2



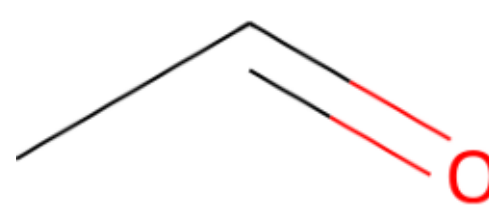
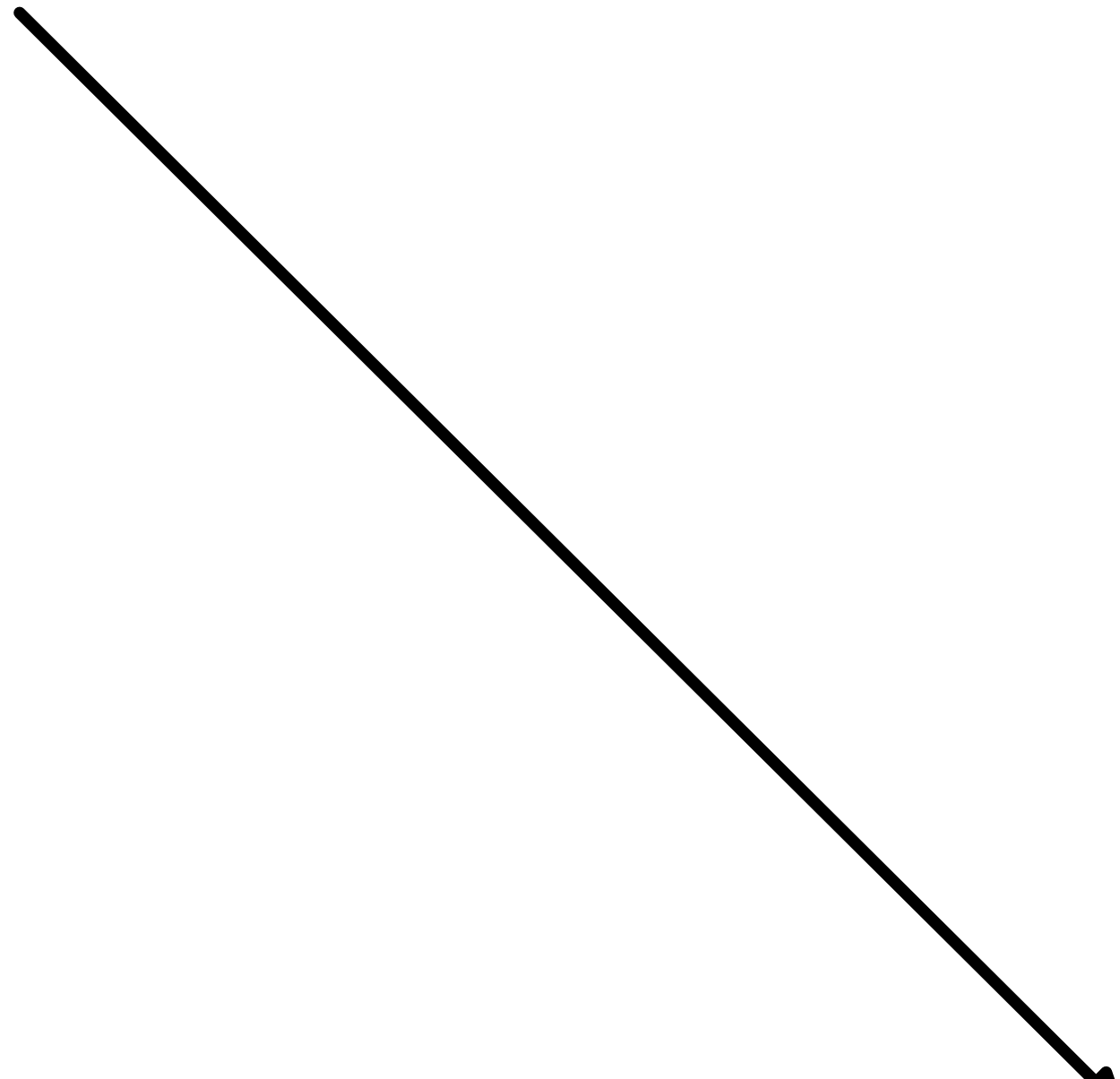
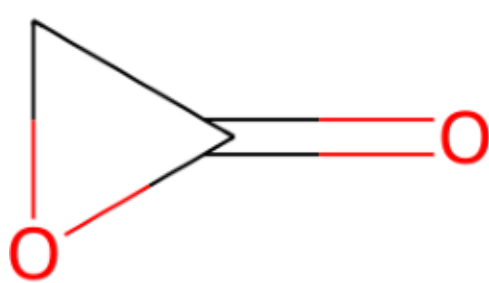
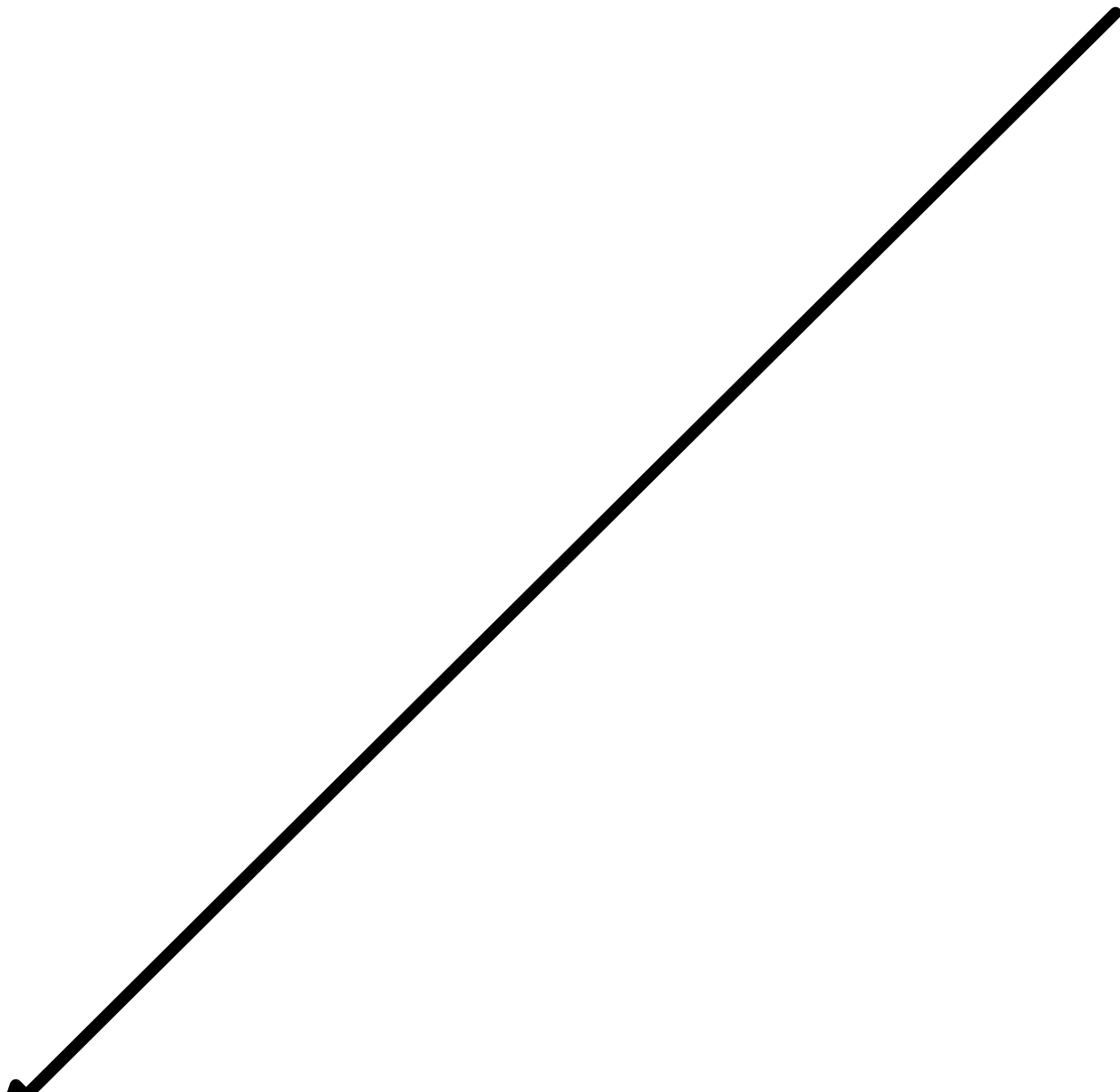
Rank 11
Atomic Economy 43.2%
Pathway by-product 0



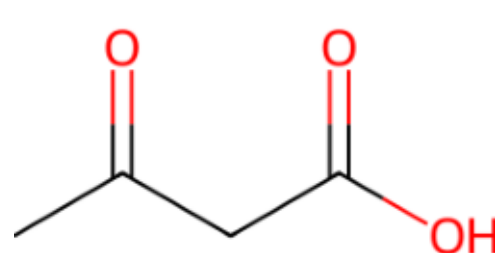
rule0169_1



rule0053_20

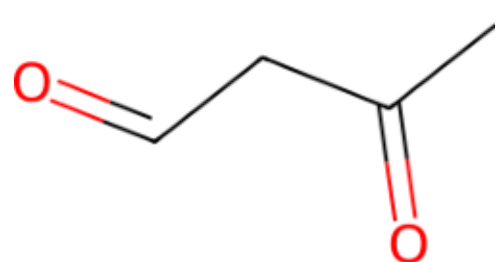


Rank 12
Atomic Economy 42.3%
Pathway by-product 0



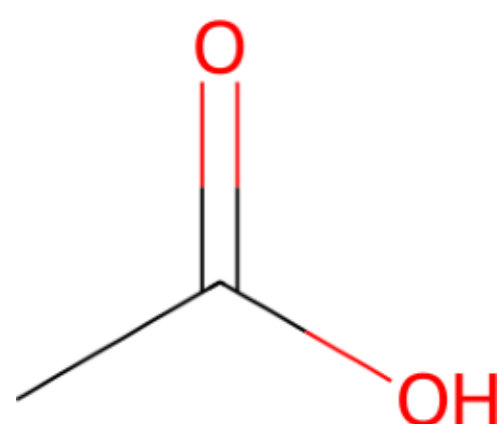
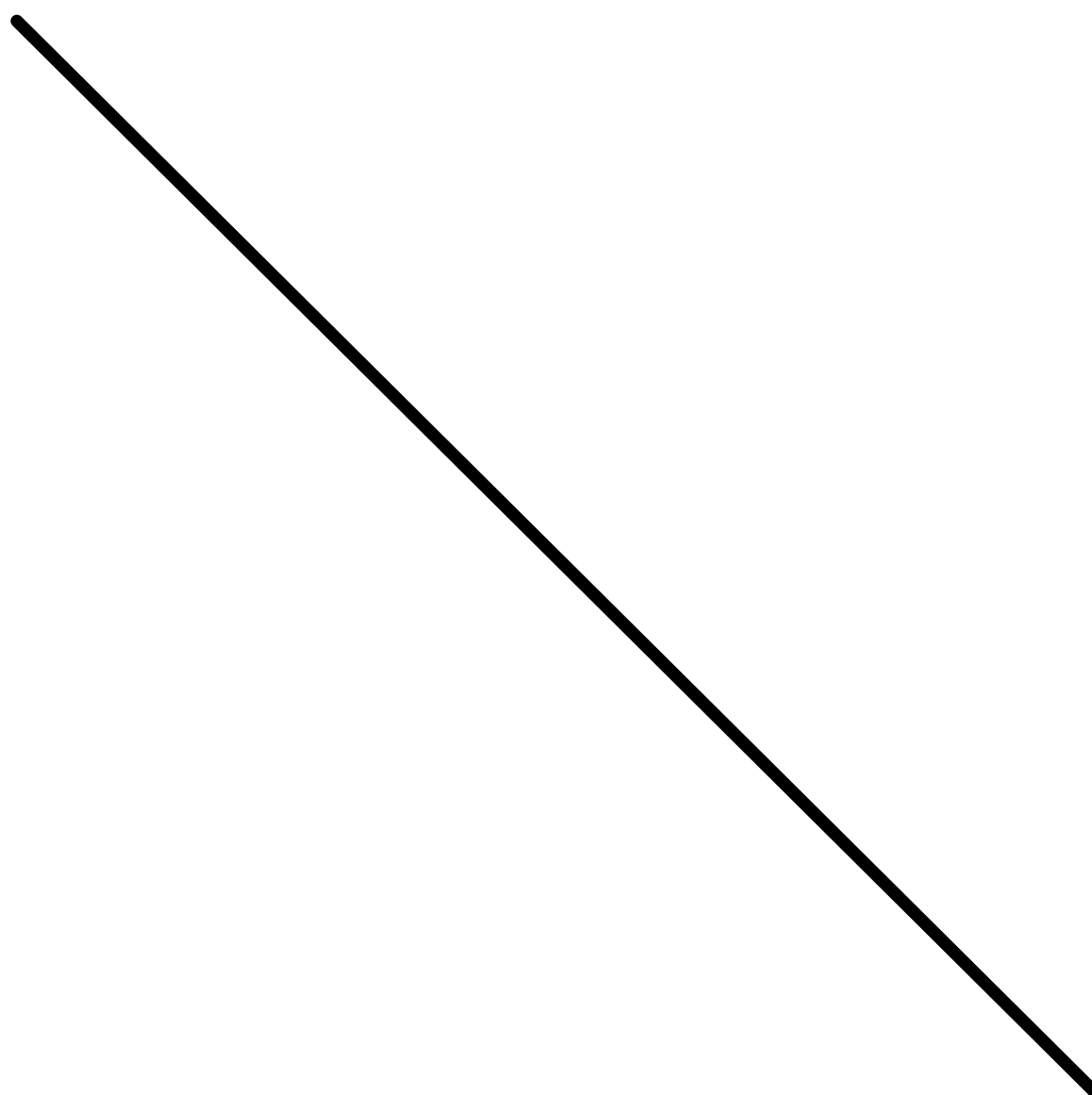
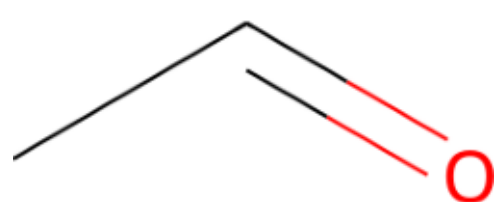
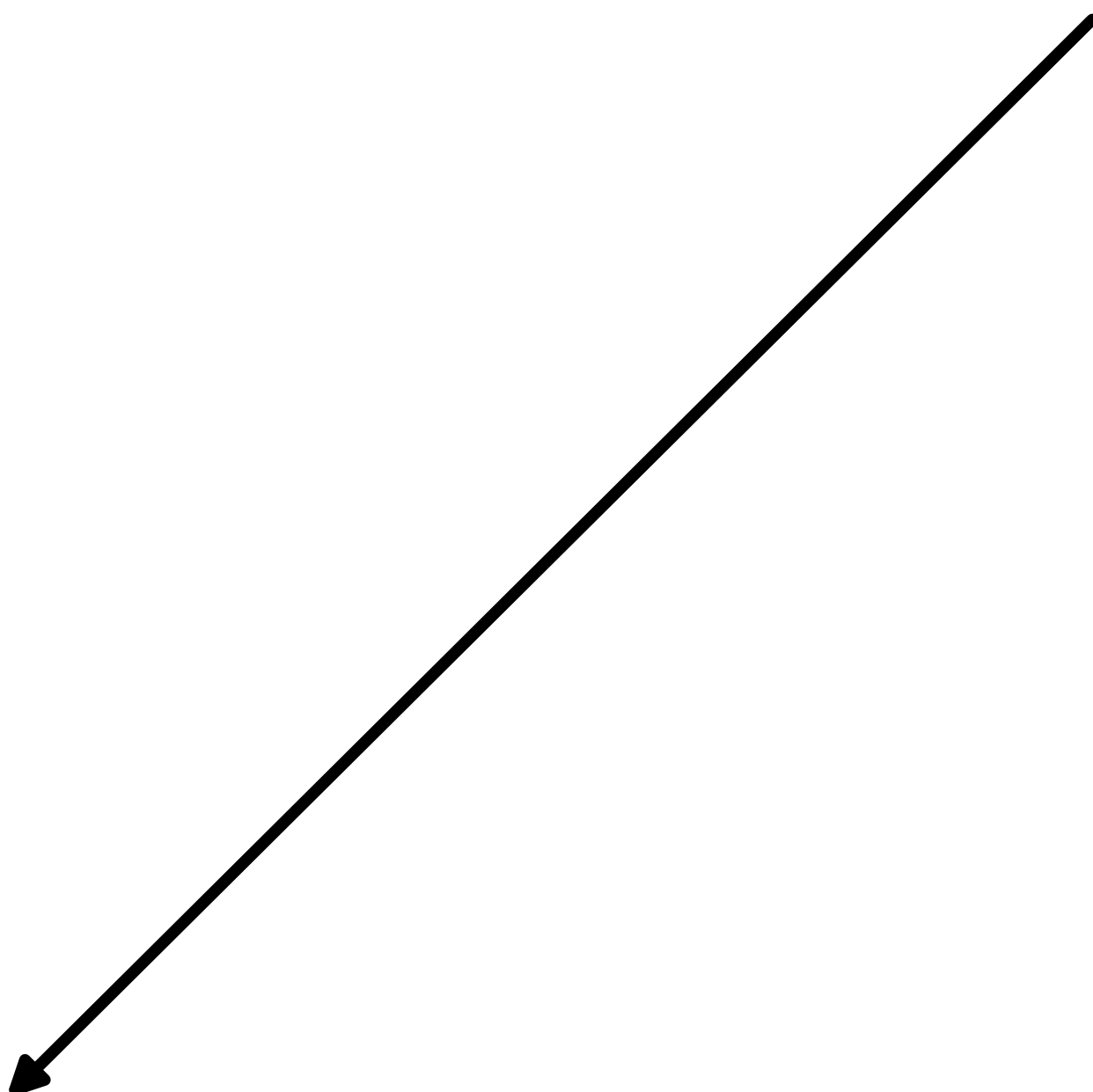
+HYDROGEN-PEROXIDE -WATER -O2

rule0147_2

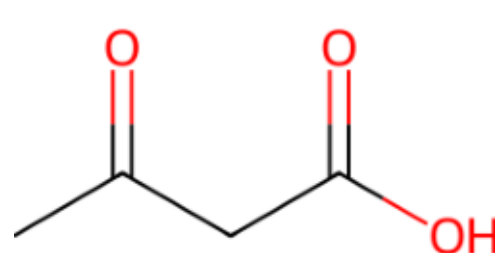


+WATER

rule0085_2

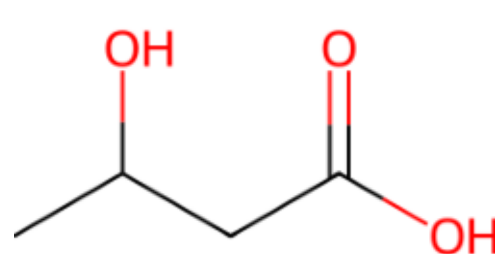


Rank 13
Atomic Economy 42.3%
Pathway by-product 0

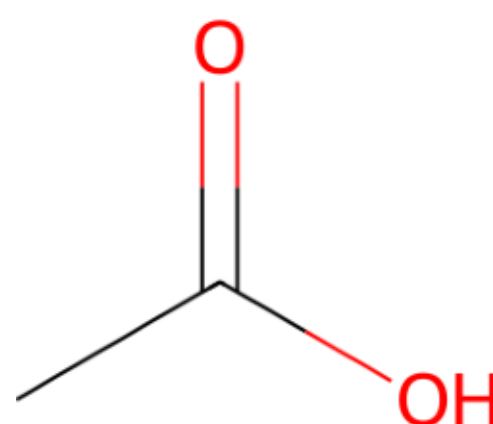
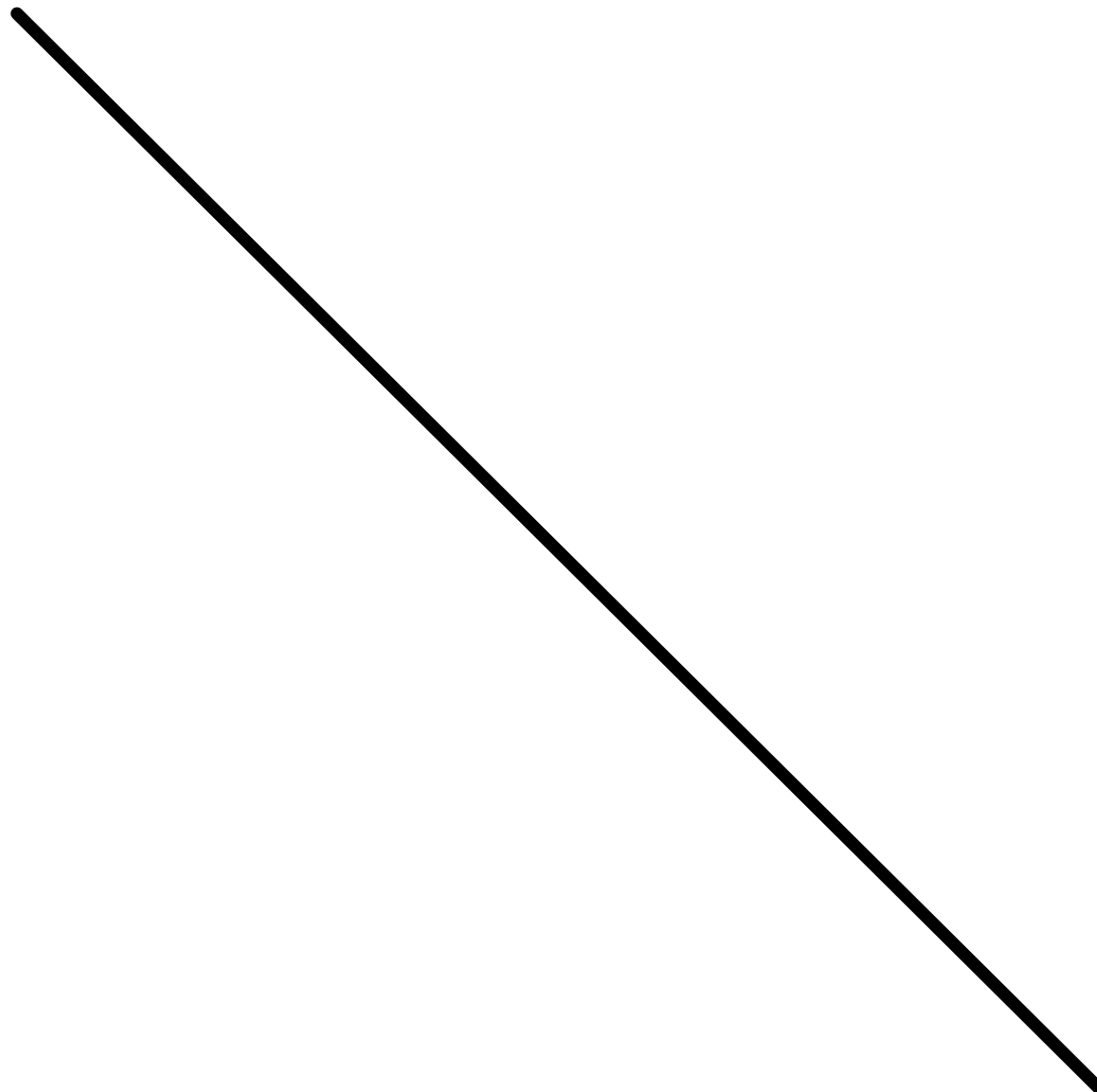
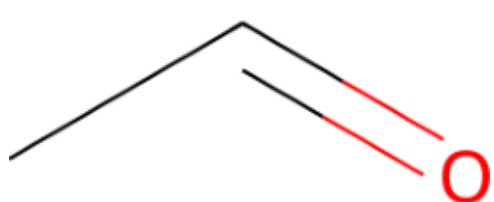
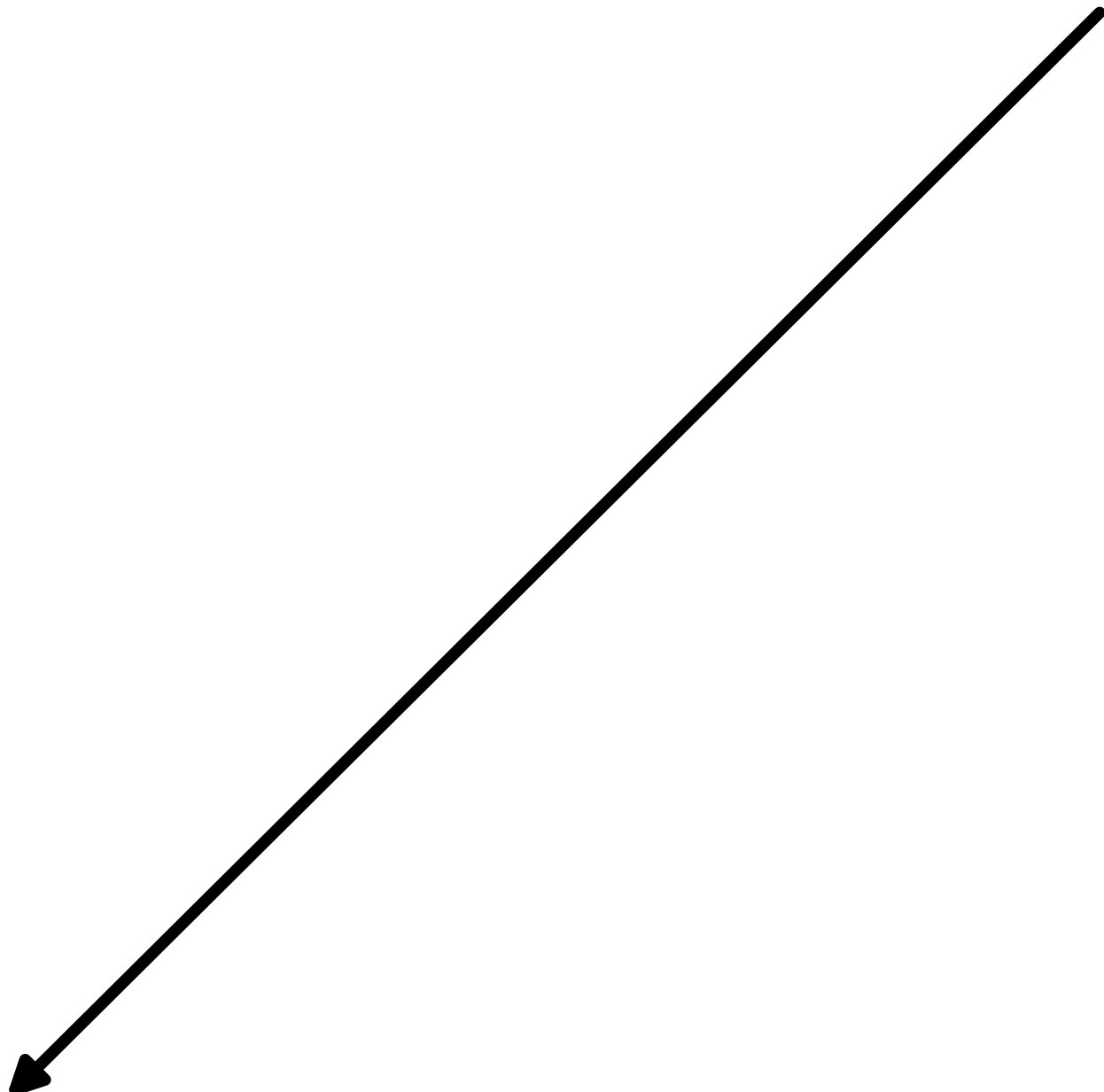


+HYDROGEN-PEROXIDE -O2

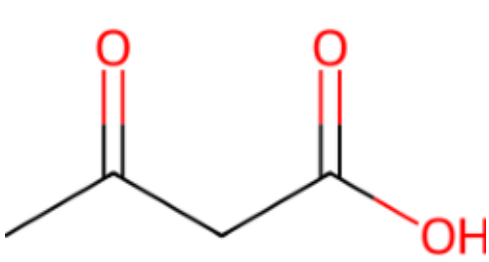
rule0078_14



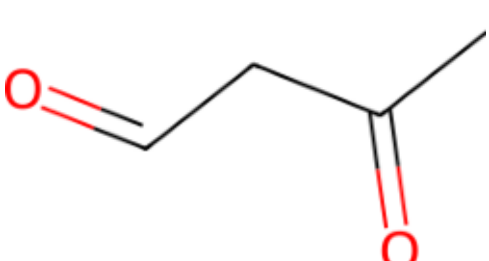
rule0053_19



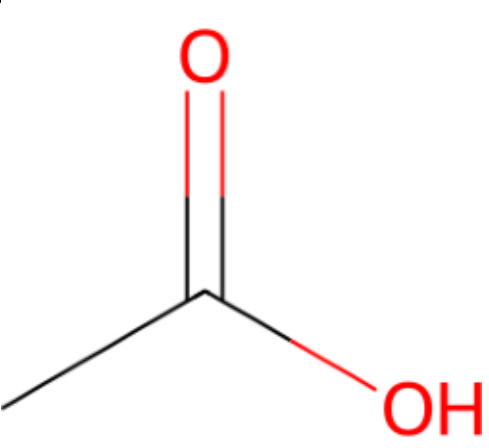
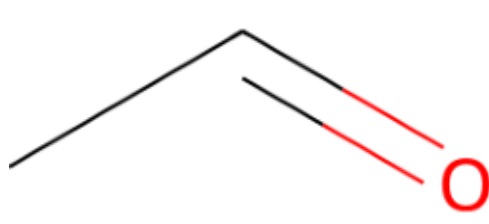
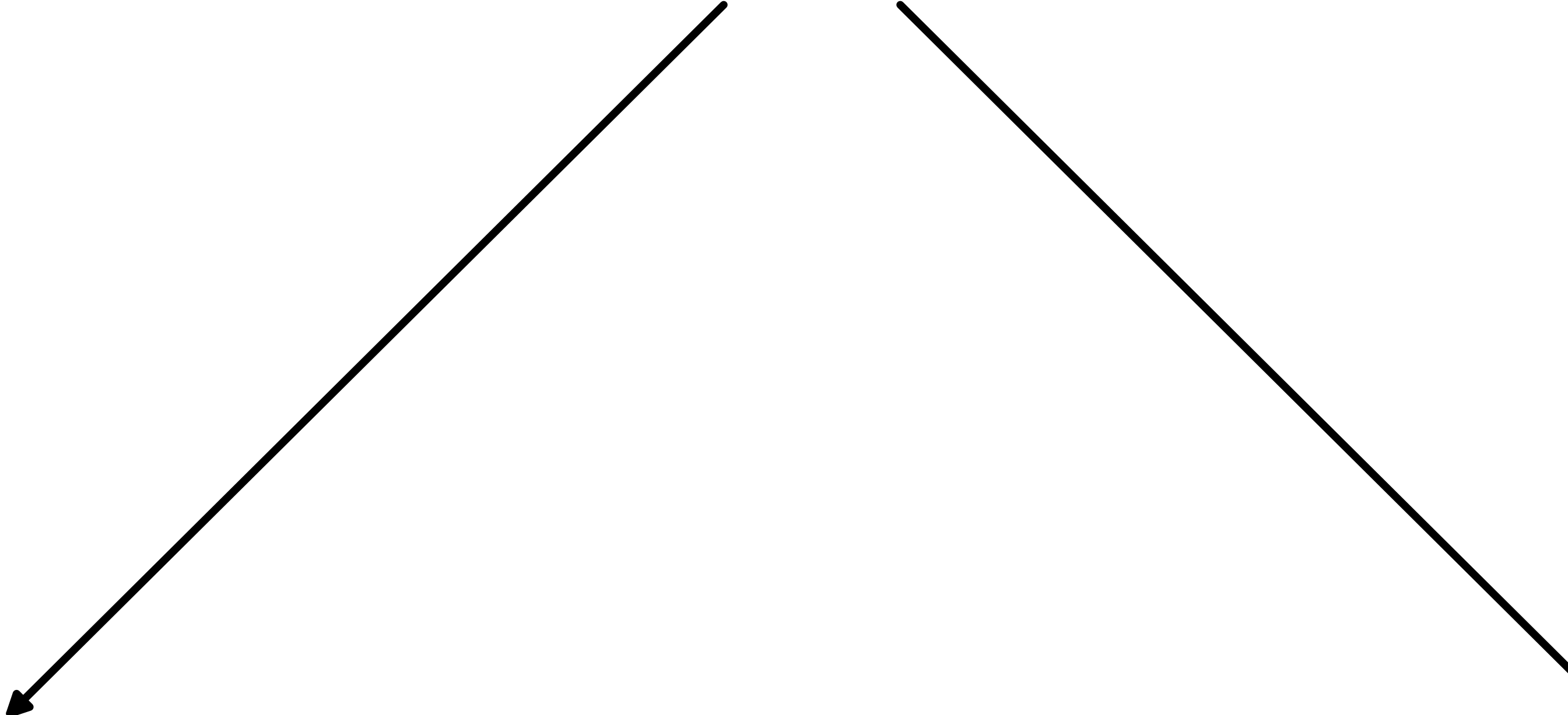
Rank 14
Atomic Economy 42.3%
Pathway by-product 0



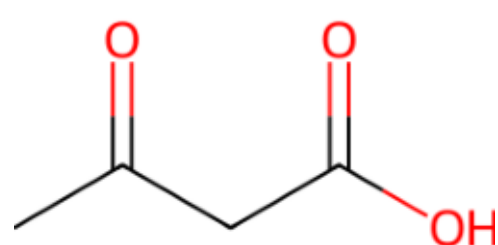
+NADP +WATER -NADPH -O2
rule0005_60



+WATER
rule0085_2

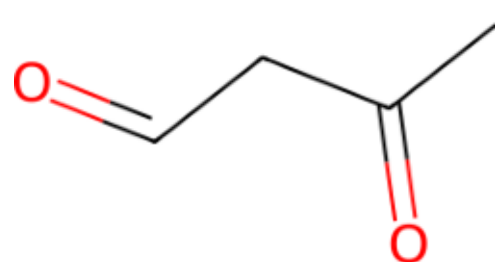


Rank 15
Atomic Economy 42.3%
Pathway by-product 0



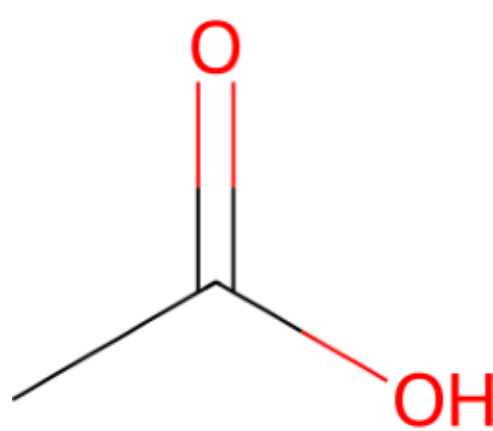
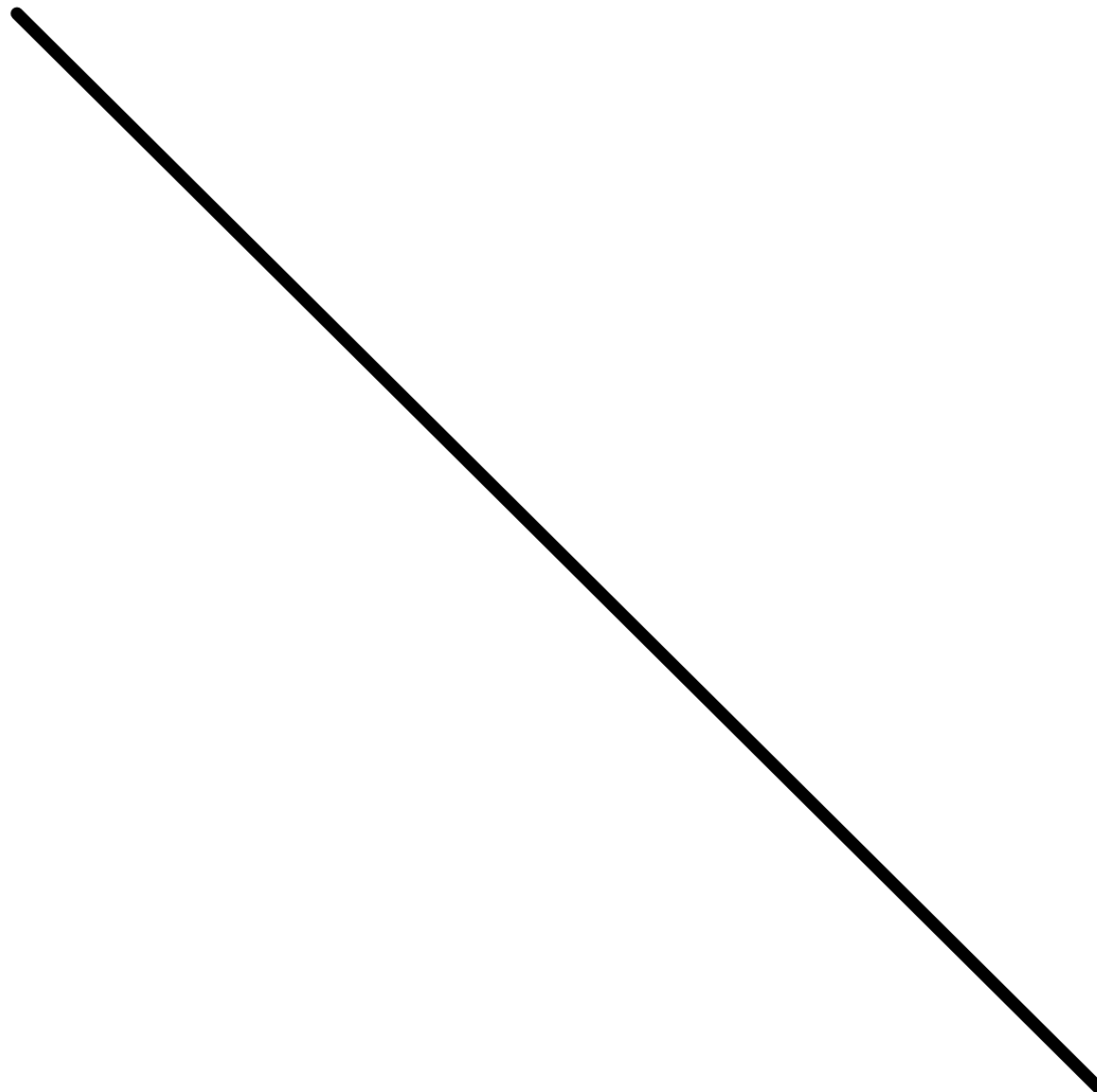
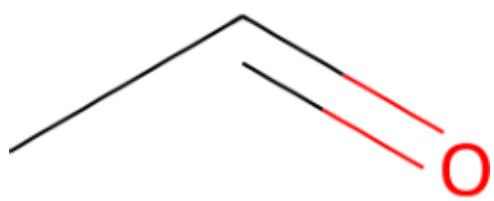
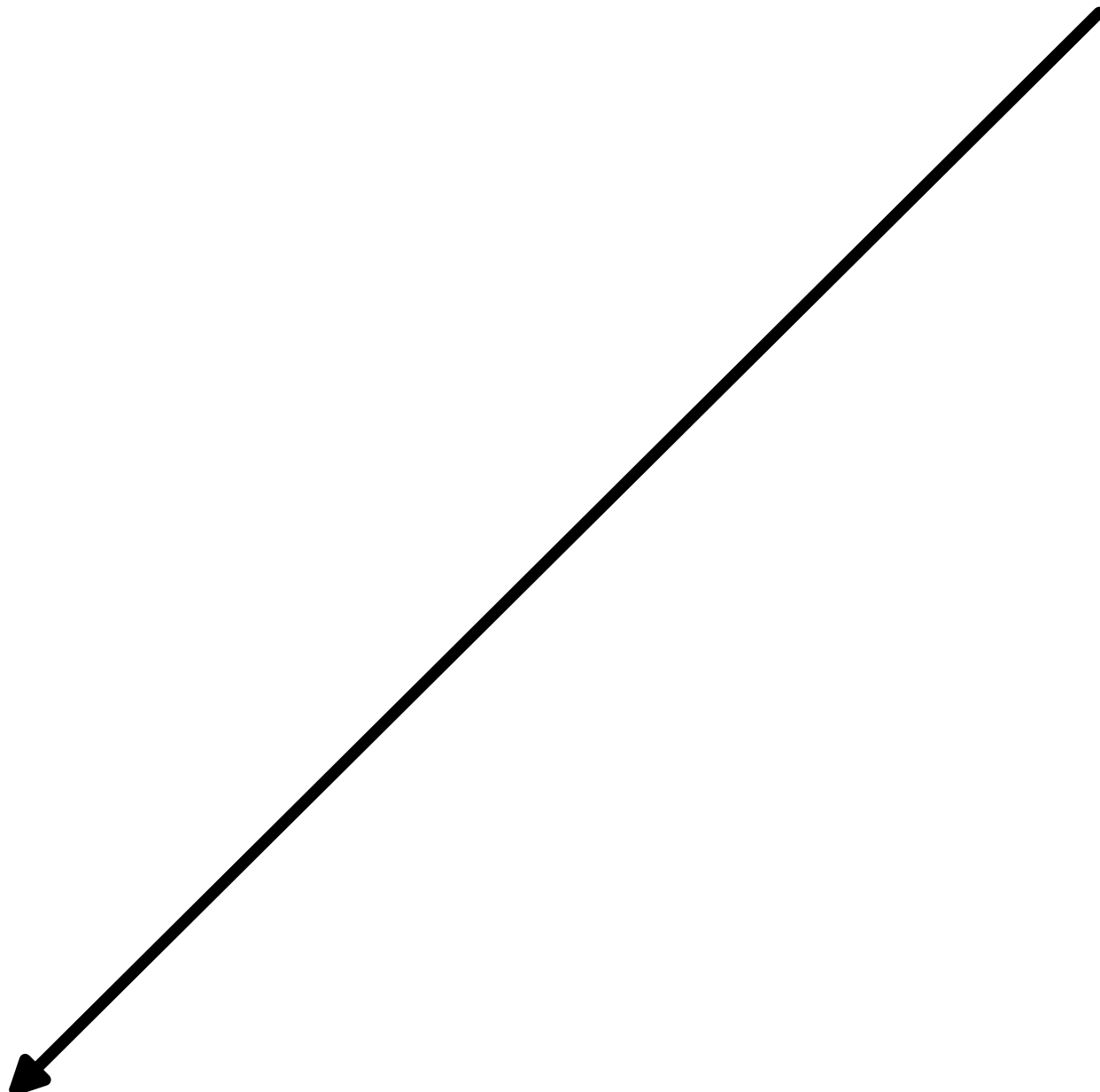
+NADPH -NADP -WATER

rule0025_34

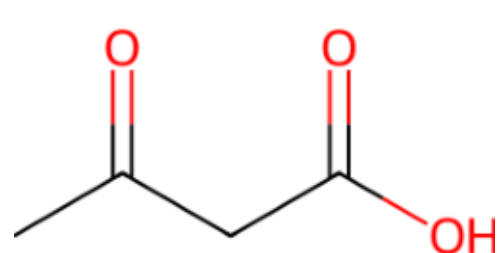


+WATER

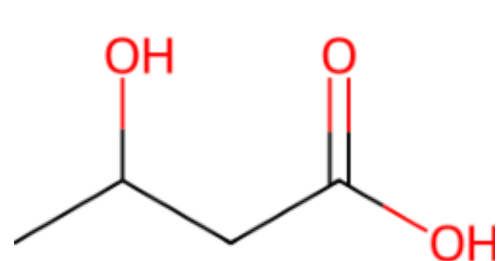
rule0085_2



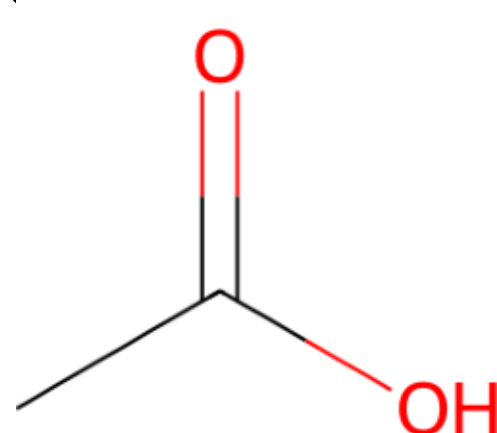
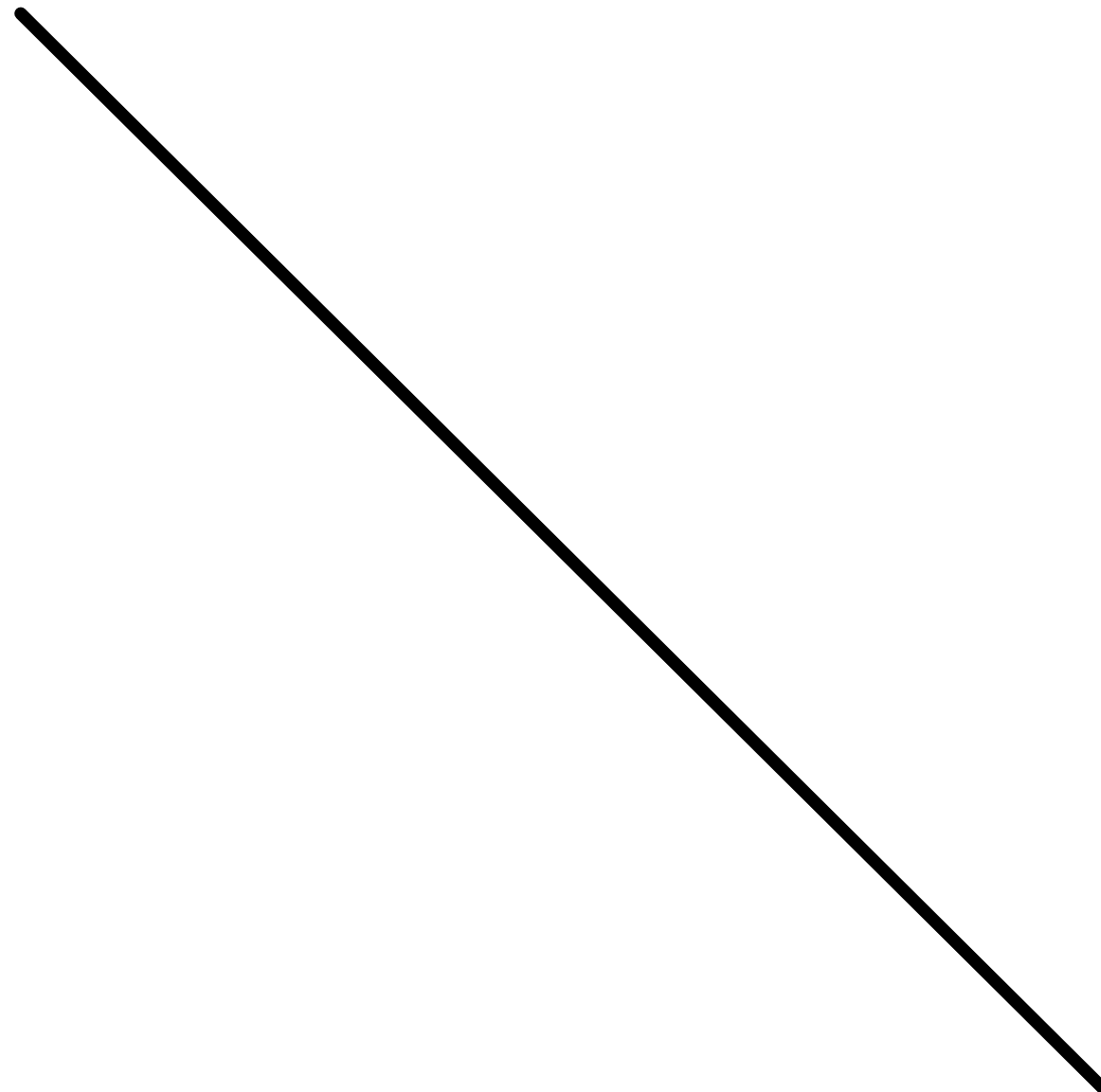
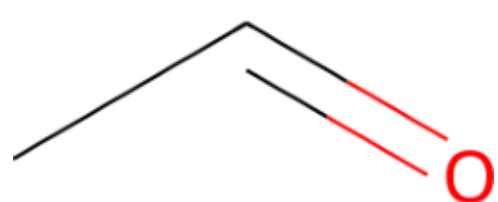
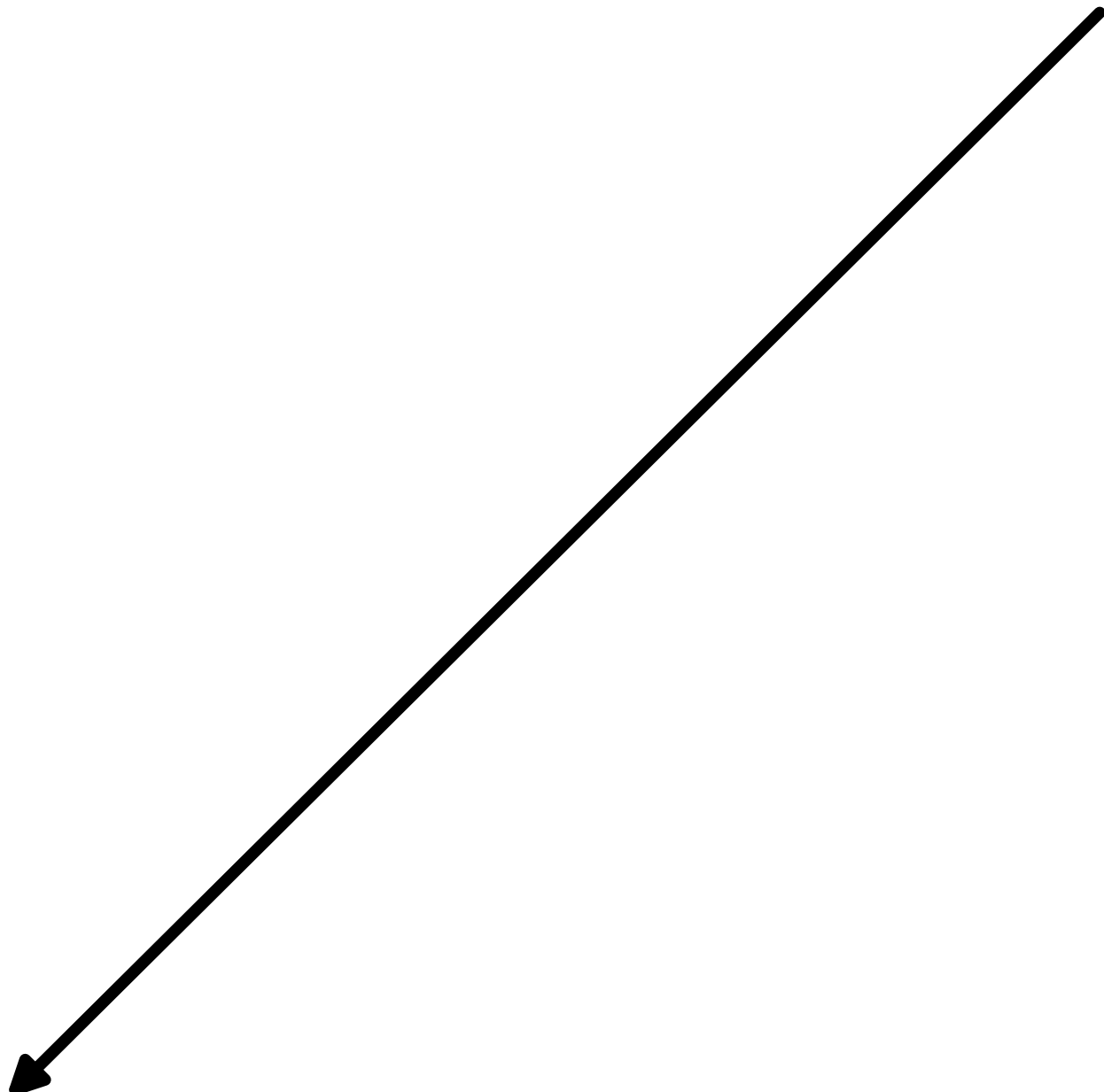
Rank 16
Atomic Economy 42.3%
Pathway by-product 0



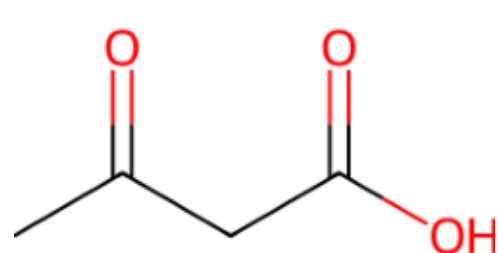
+NADPH -NADP
rule0003_135



rule0053_19

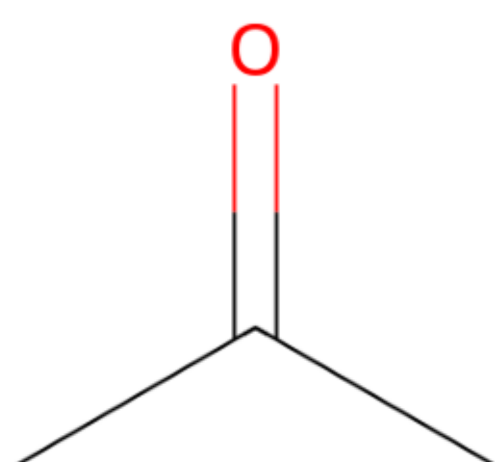


Rank 17
Atomic Economy 37.9%
Pathway by-product 0

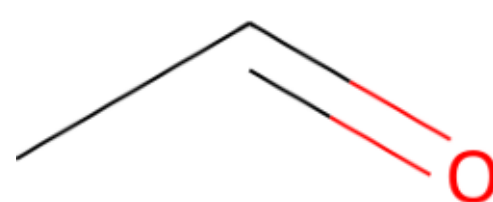
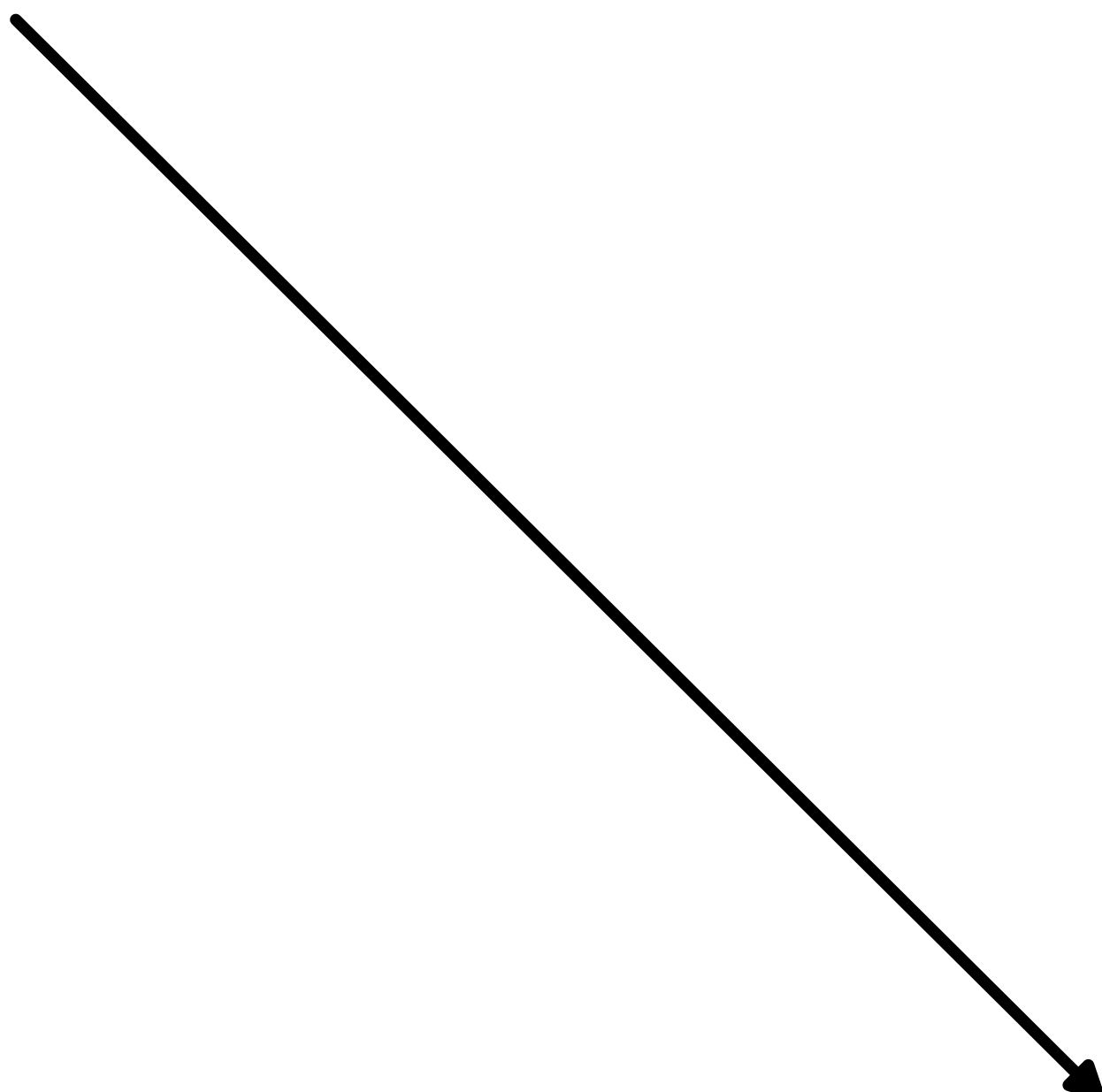
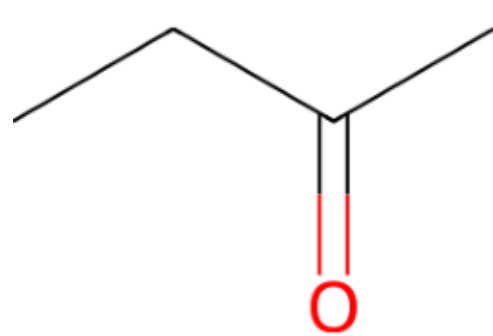
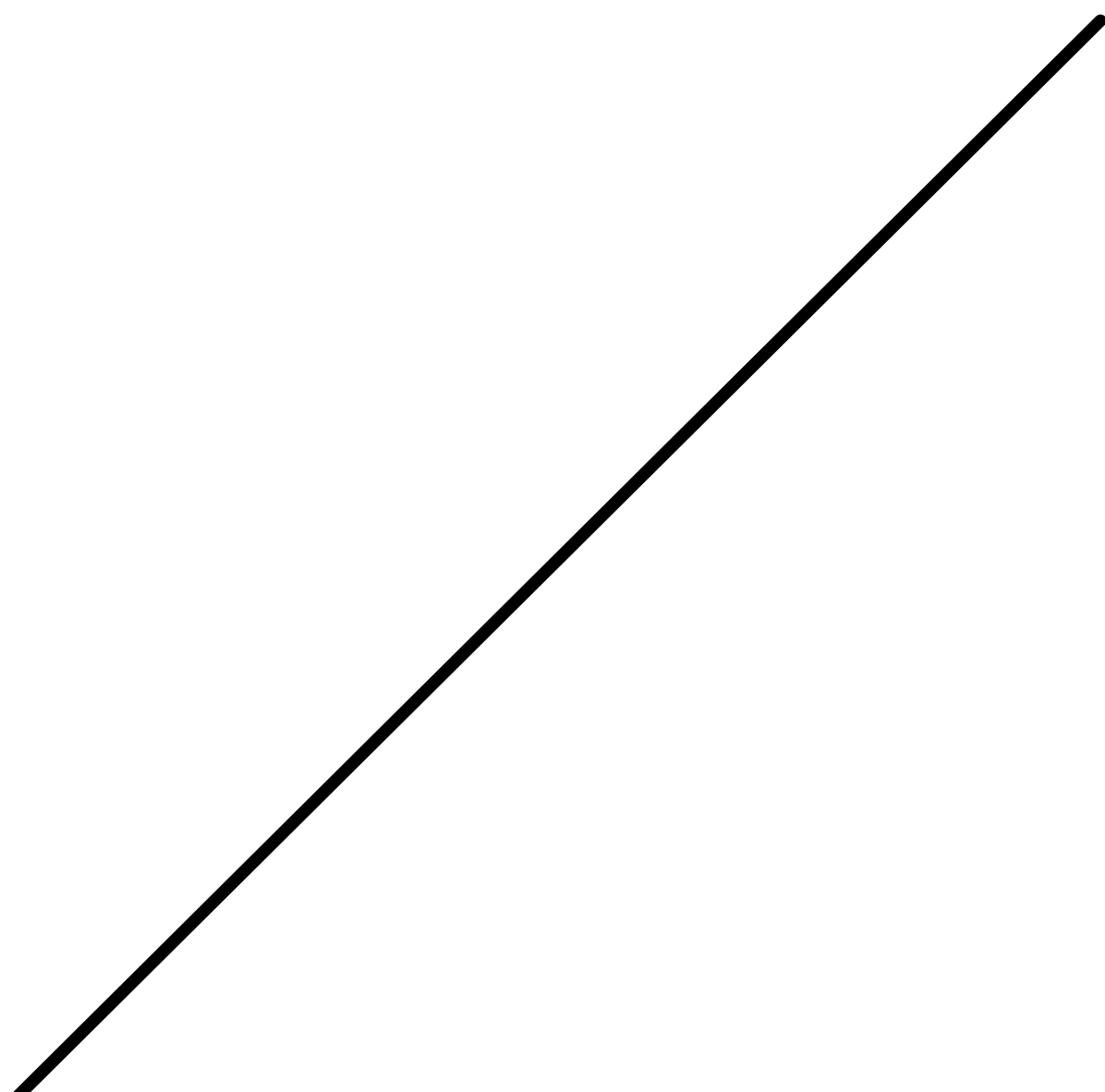


-CARBON-DIOXIDE

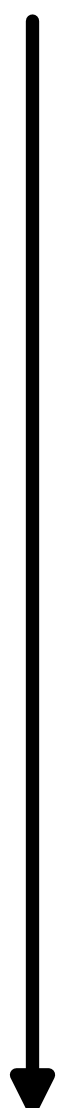
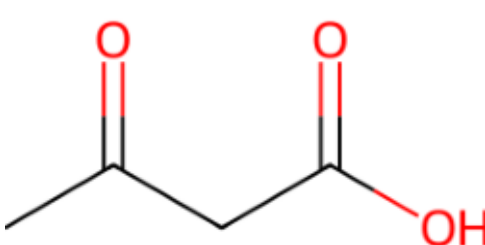
rule0024_44



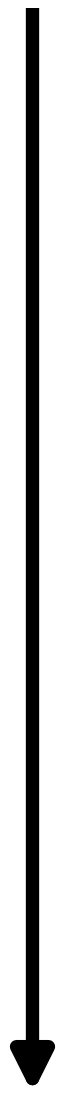
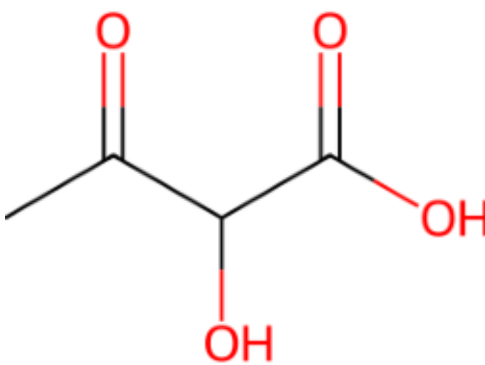
rule0126_2



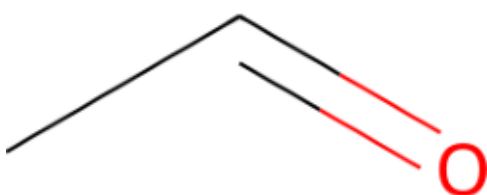
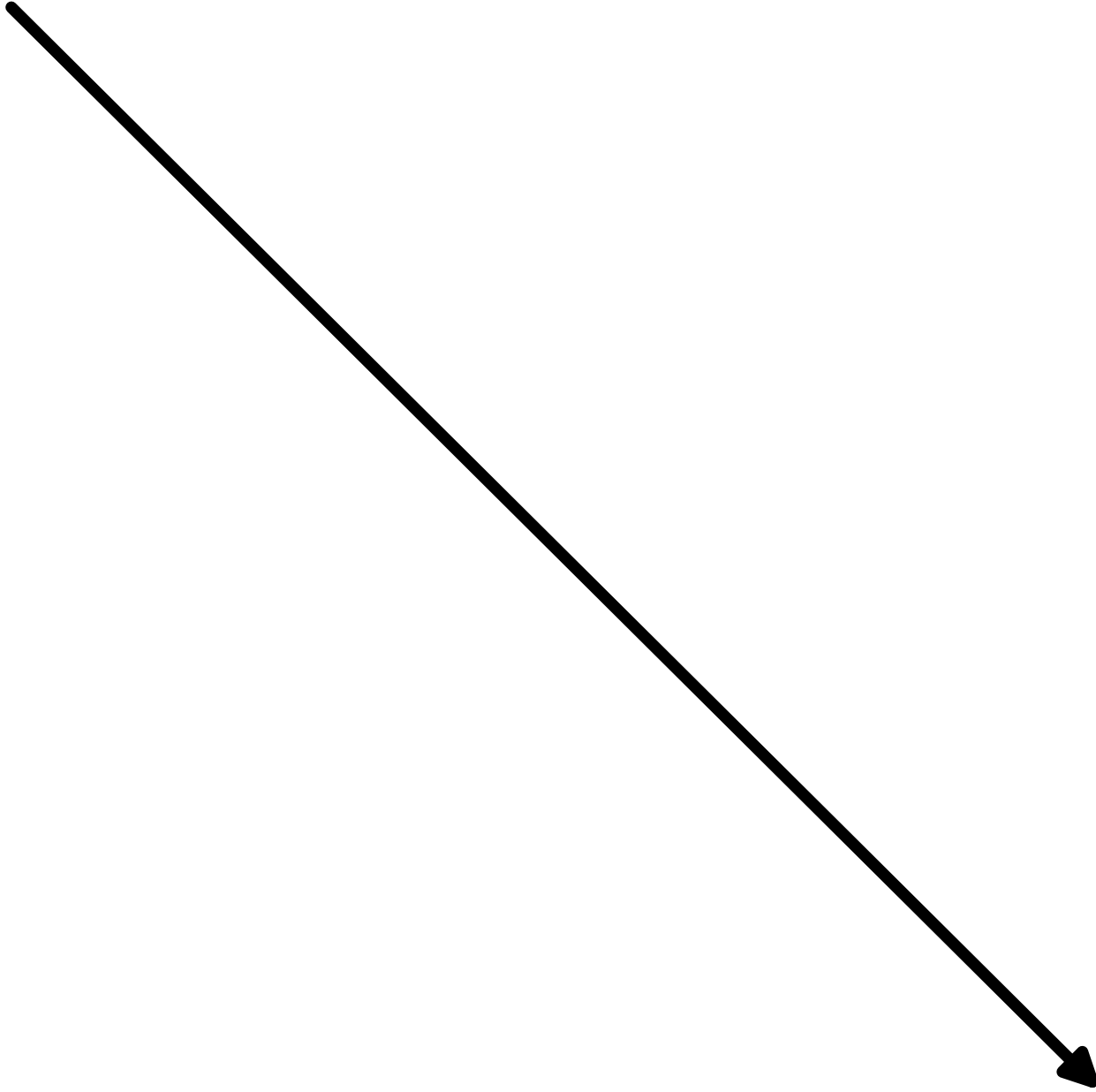
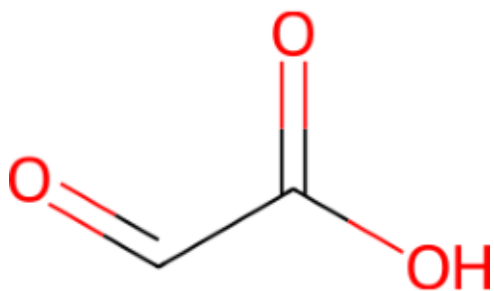
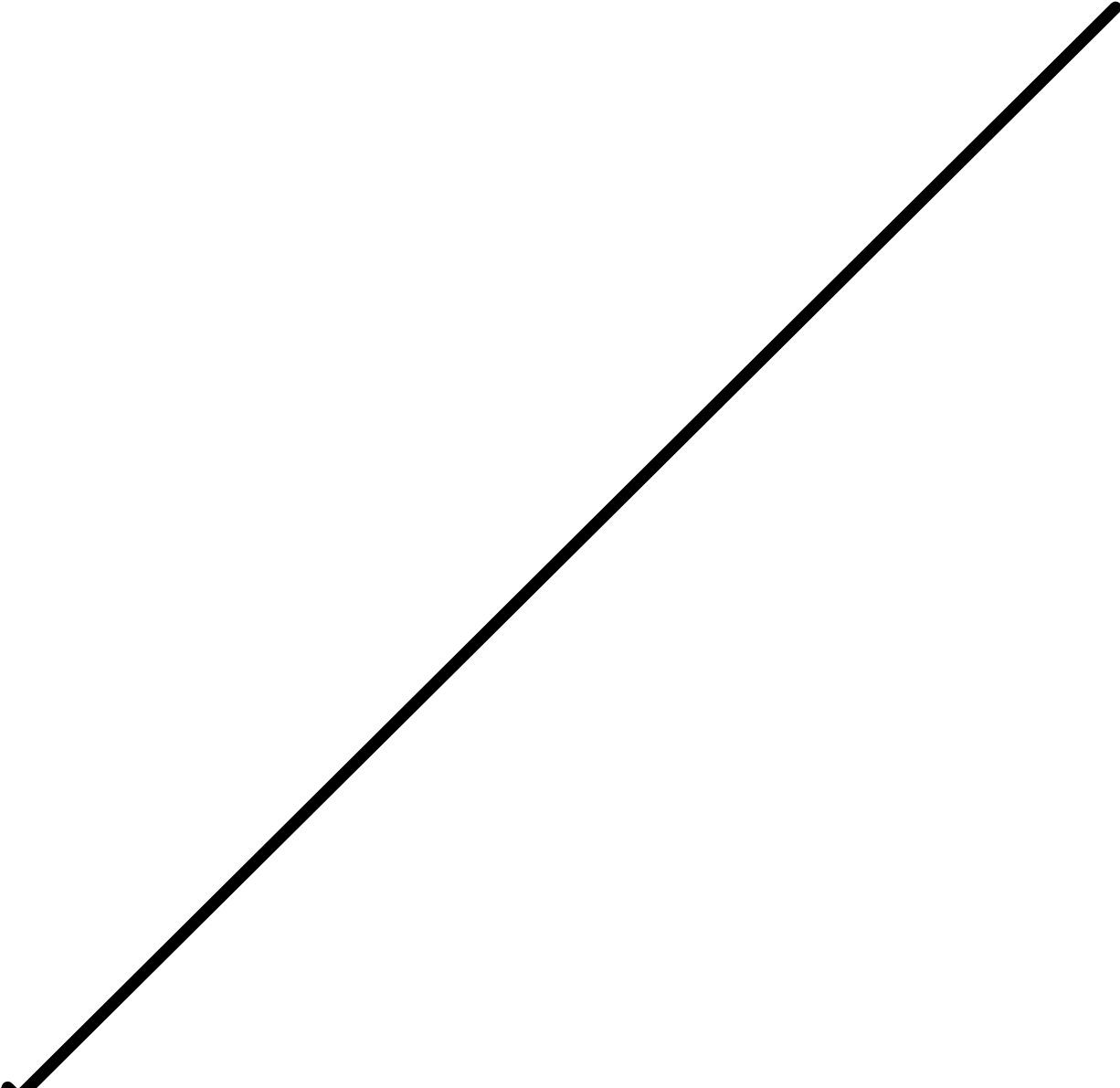
Rank 18
Atomic Economy 37.3%
Pathway by-product 0



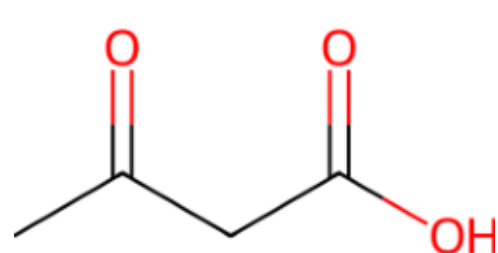
+NADPH +O2 -NADP -WATER
rule0004_13



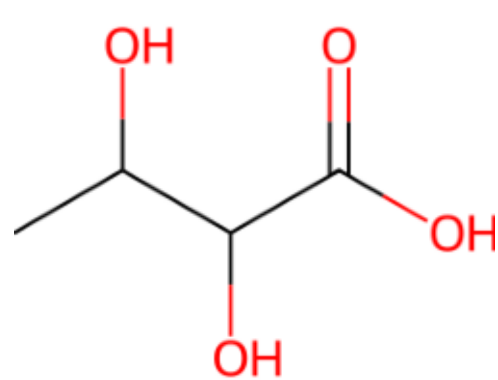
rule0053_17



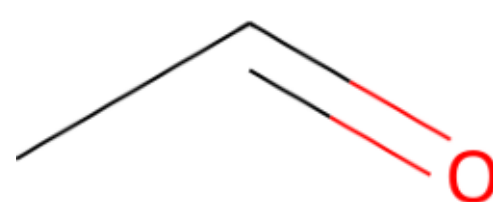
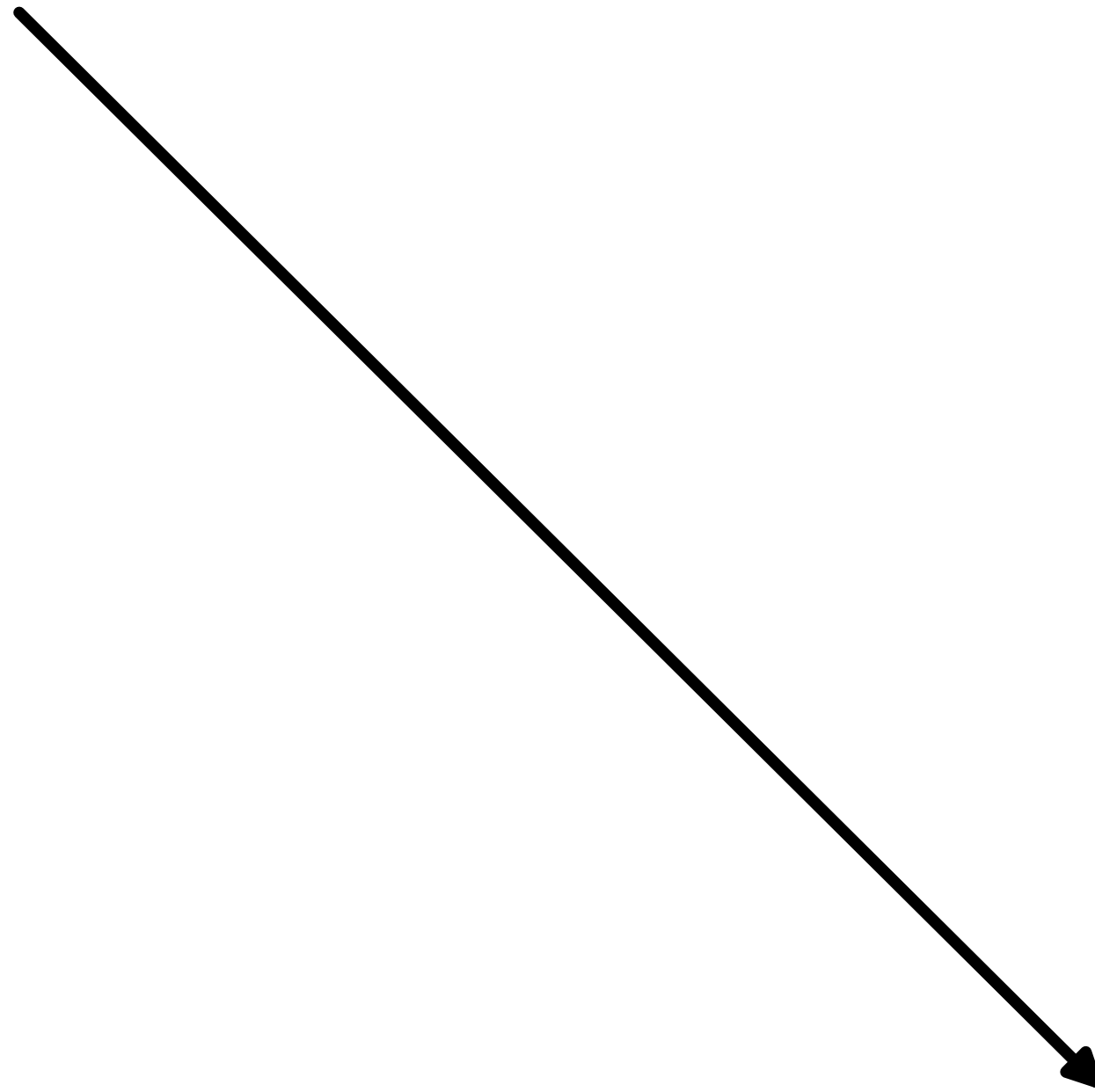
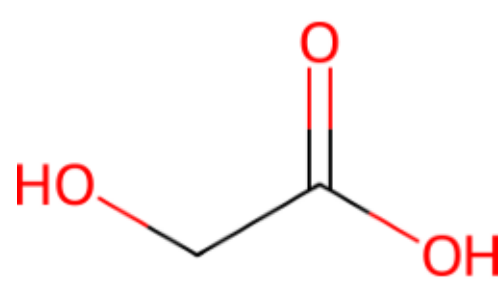
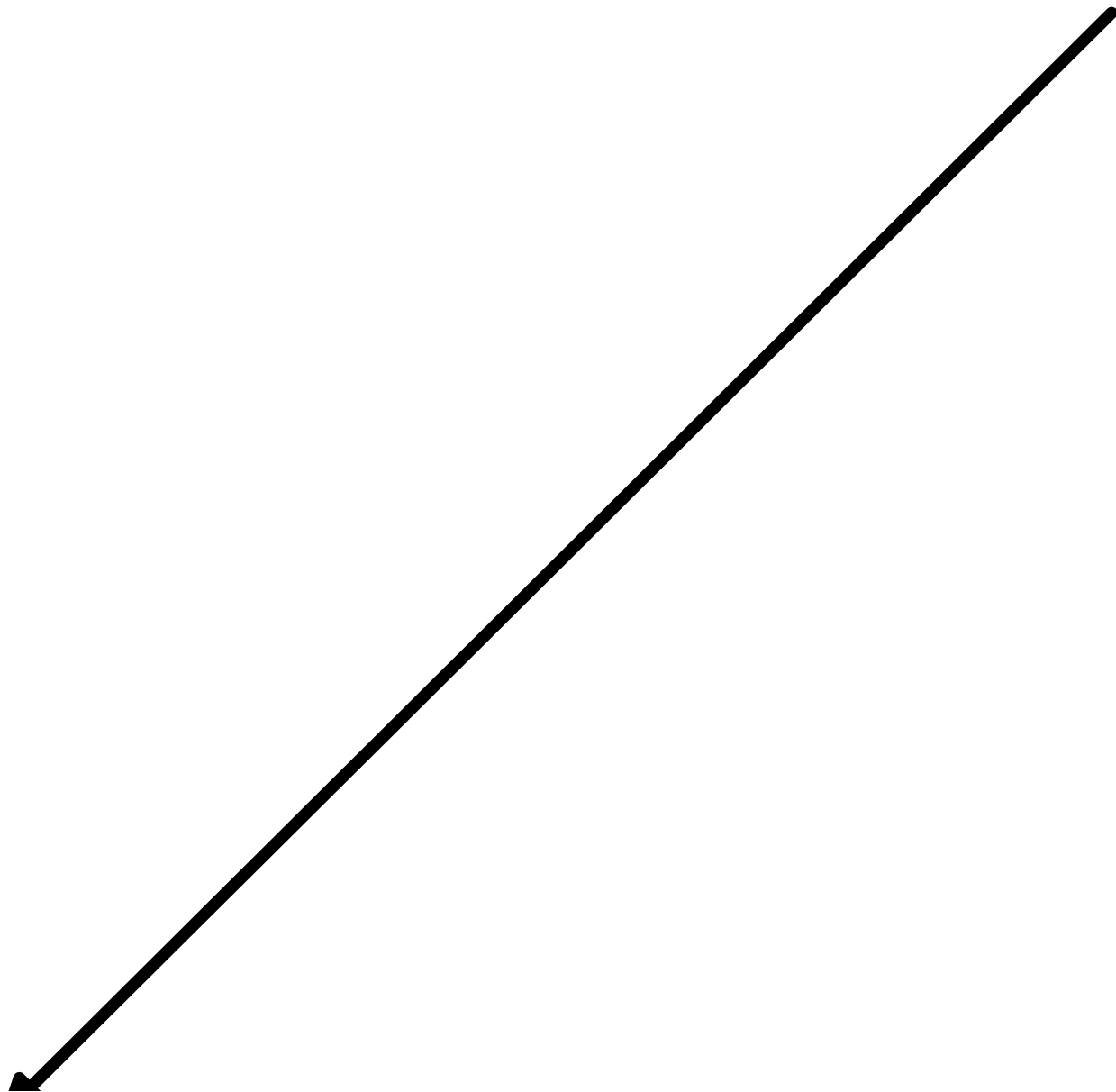
Rank 19
Atomic Economy 36.7%
Pathway by-product 0



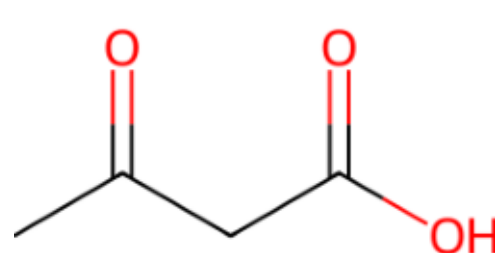
+WATER
rule0070_6



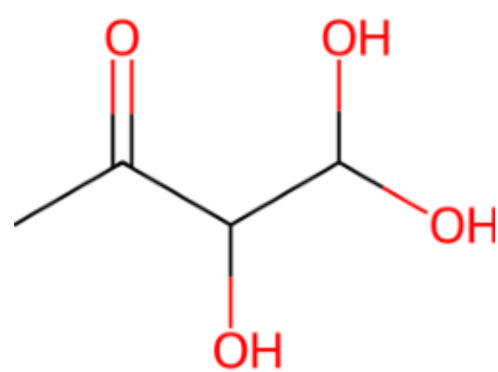
rule0053_19



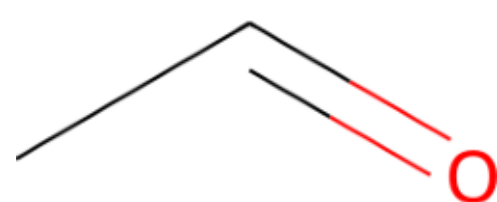
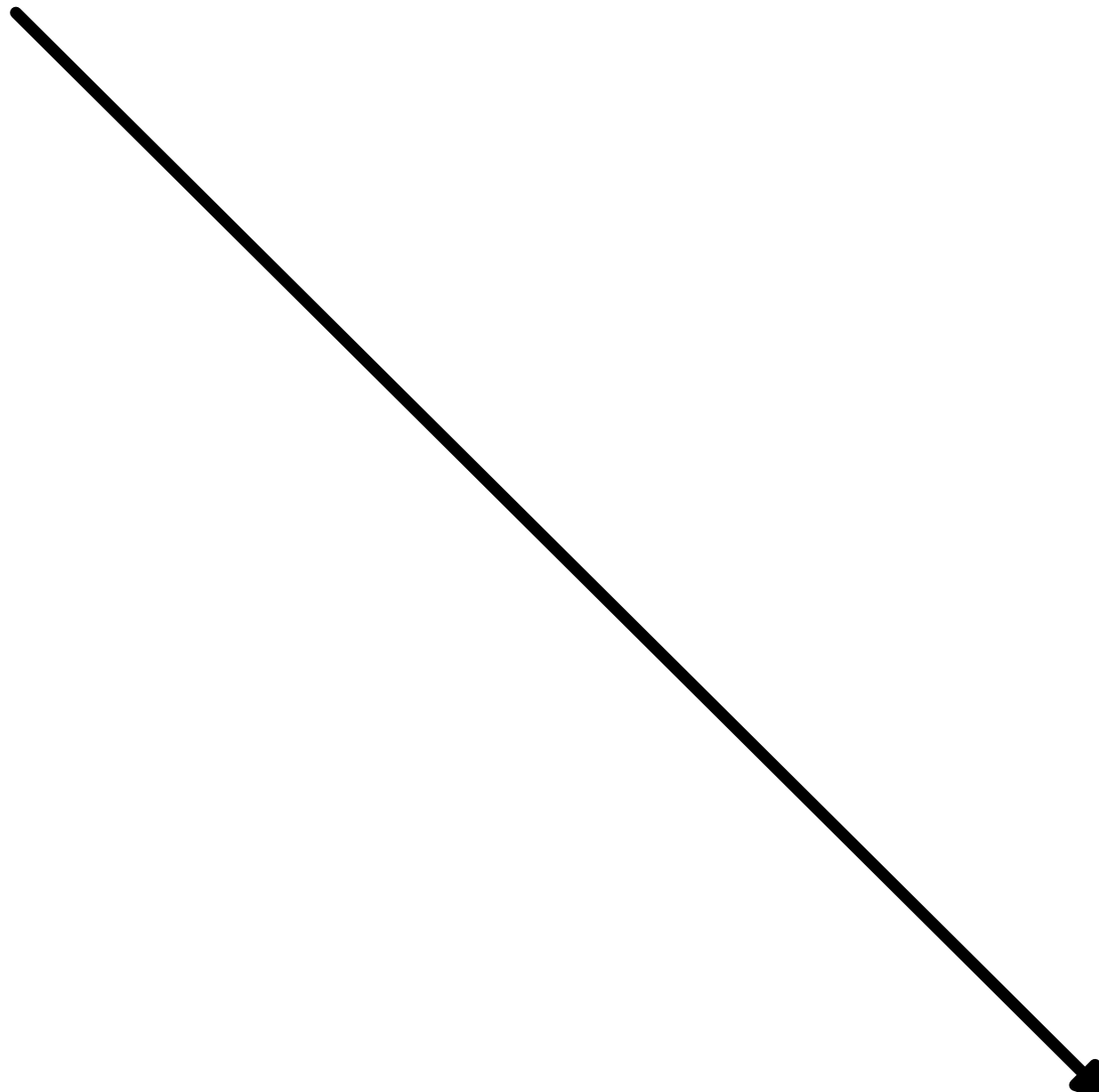
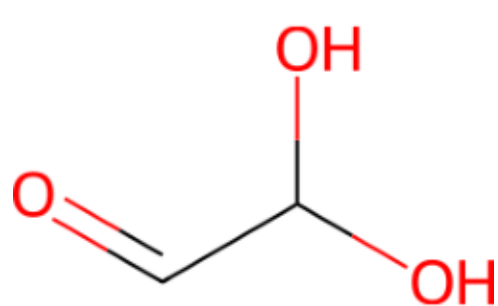
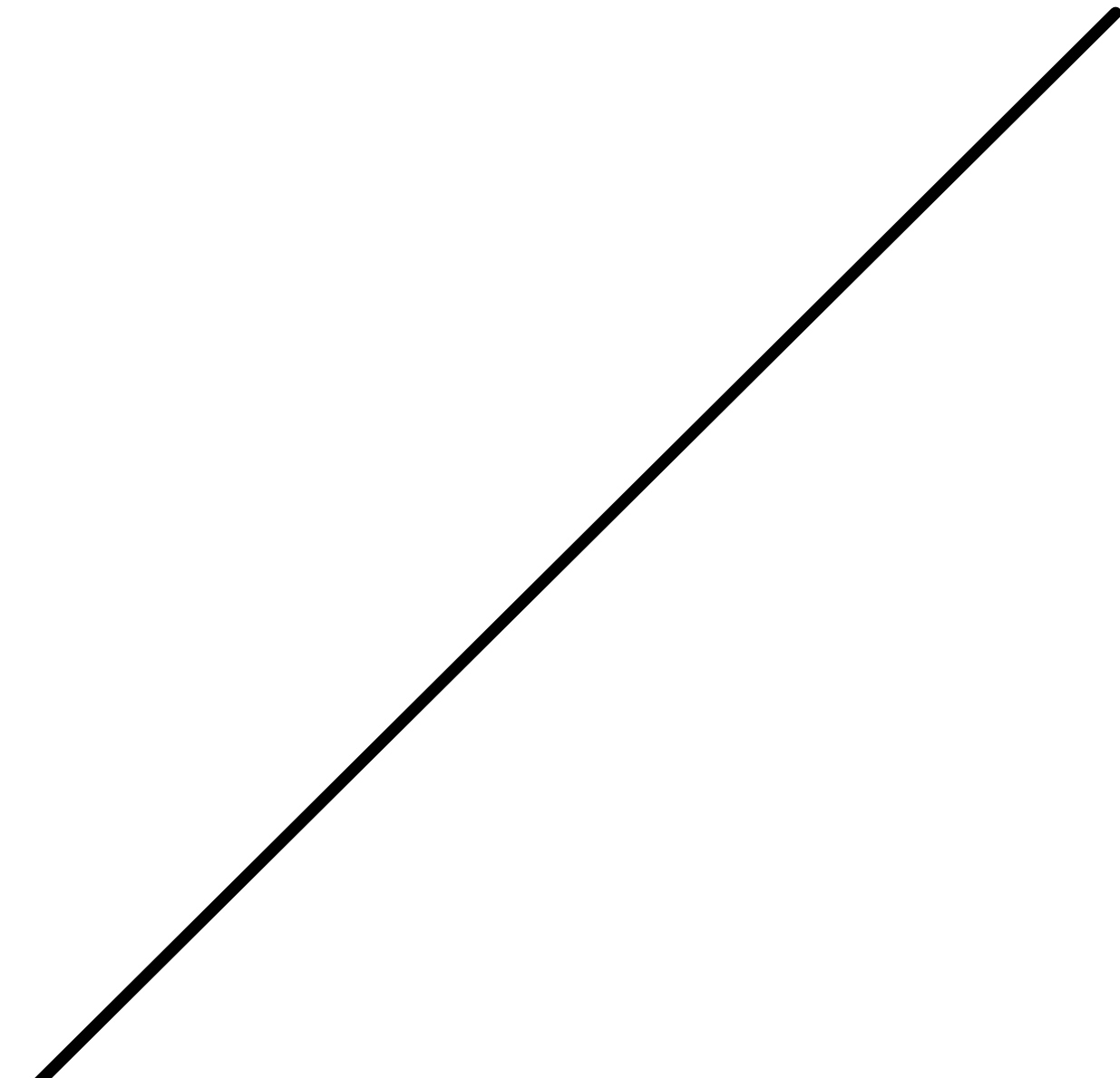
Rank 20
Atomic Economy 36.7%
Pathway by-product 0



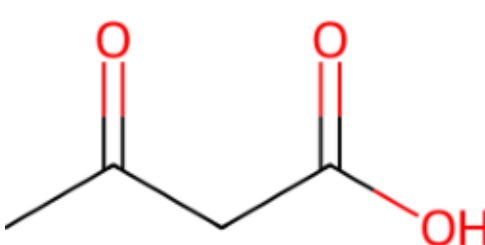
+WATER
rule0070_6



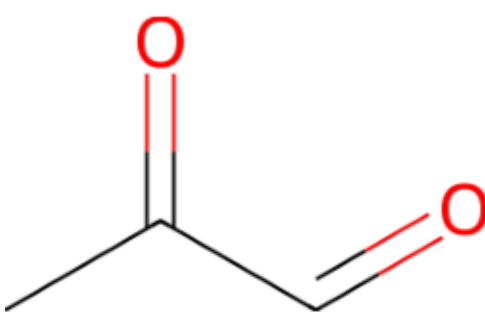
rule0053_17



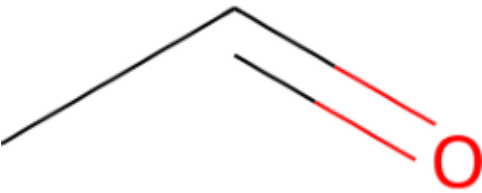
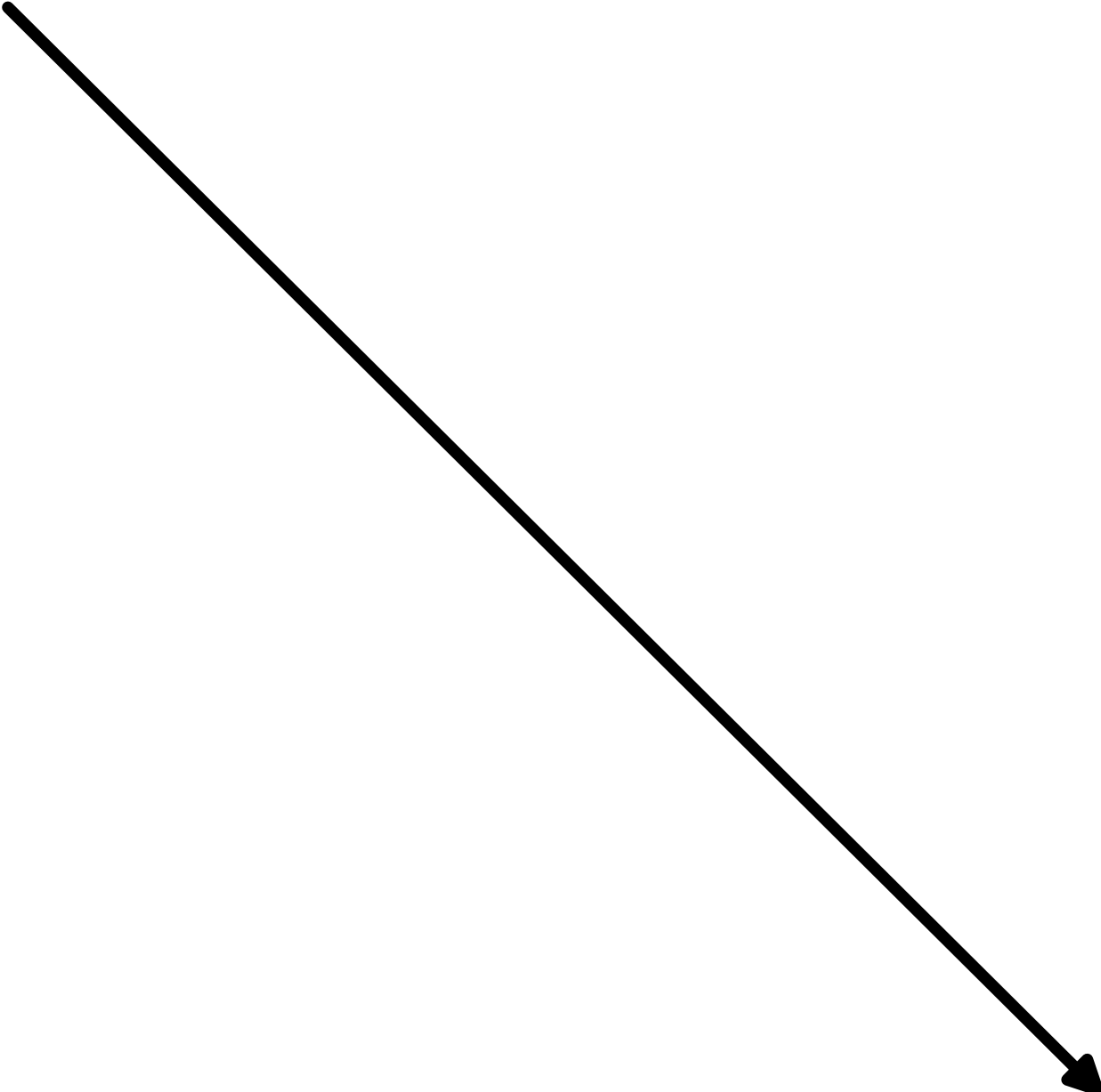
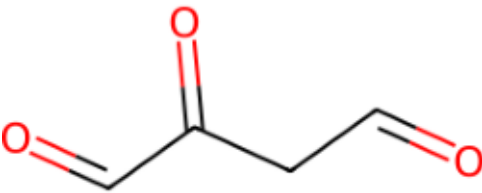
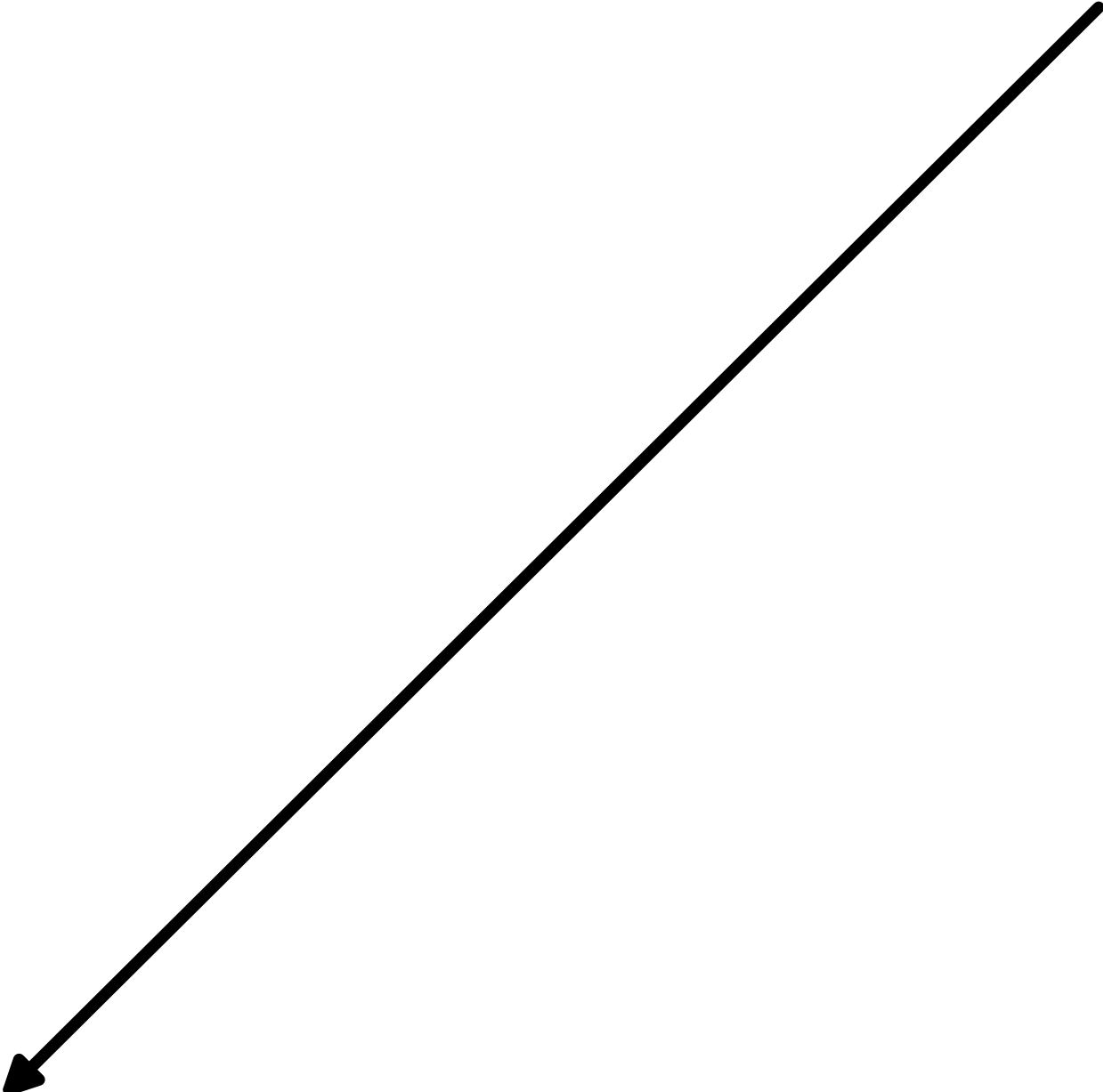
Rank 21
Atomic Economy 30.6%
Pathway by-product 0



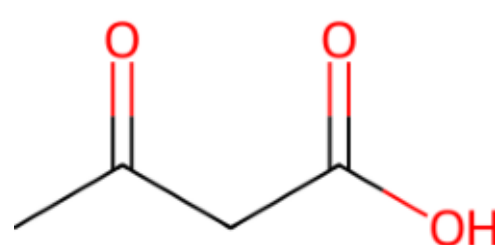
+O2 -WATER -CARBON-DIOXIDE
rule0352_2



rule0126_2

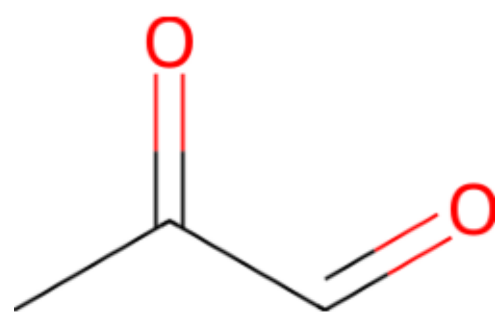


Rank 22
Atomic Economy 30.6%
Pathway by-product 0



+O2 -WATER -CARBON-DIOXIDE

rule0352_2



rule0126_2

