



Hydrocarbons		
Low to Moderate Concentrations		RTO, TRO
Low Concentrations & High Volume		Rotor Concentration + RTO (depending on the hydrocarbon)
High Concentrations		Enclosed Flares
Low Concentrations in combination with large particulates		Filter or Baghouse + RTO
High Concentrations in combination with particulates		DFTO + Venturi Scrubber
Halogenated Compounds		
Low to Moderate Concentrations		RTO + Quench & Caustic Wet Scrubber
High Concentrations		DFTO + Quench & Caustic Wet Scrubber
Sulfur Bound Compounds		
Low Concentrations		Carbon Adsorber
Low Concentrations in combination with other Hydrocarbons		RTO + Caustic Wet Scrubber
Moderate to High Concentrations		DFTO or RTO + Quench + Caustic Wet Scrubber + Fiber Bed Filter
Common Examples		
<i>Compound</i>	<i>Class</i>	<i>Solution</i>
Ammonia	Nitrogen Bound Compound	Acid Wet Scrubber
Ammonia & Hydrogen Sulfide, low concentrations	Nitrogen Bound Compound	2-Stage Carbon Adsorber
Ammonia or Amines in Combination with other Hydrocarbons, low concentrations	Nitrogen Bound Compound	RTO + Selective Catalytic Reduction
Butadiene	Hydrocarbon	High Temperature Oxidizer
Carbon Monoxide	Other	High Temperature RTO
Carbon Tetrachloride	Halogenated Compound	Very High Temperature Oxidizer or Catalytic Oxidizer
Chlorine Gas	Acid Gas	Caustic Wet Scrubber
Ethanol	Hydrocarbon	Catalytic Oxidizer
Ethylene Oxide	Hydrocarbon	Catalytic Oxidizer
Hydrogen Sulfide	Sulfur Bound Compound	RTO + Caustic Wet Scrubber
Methane	Hydrocarbon	Moderately High Temperature Oxidizer
Phenol	Hydrocarbon	Extremely High Temperature Oxidizer
Xylene	Hydrocarbon	High Temperature Oxidizer



Commonly Treated Pollutants	
<i>Class</i>	<i>Compound Examples</i>
Hydrocarbons Compounds containing of C, H, & O	Acetone Benzene Butadiene Butane Ethane Ethanol Ethylene Oxide MEK Methane Phenol Propane Toluene Xylene
Halogenated Compounds Compounds containing F, Cl, Br, & I	Carbon Tetrachloride Chloroform Dichlorofluoromethane Ethyl Bromide Vinyl Chloride
Sulfur Bound Compounds	Carbon Disulfide Hydrogen Sulfide Methyl Mercaptan
Nitrogen Bound Compounds	Ammonia Ethyl Amine Hydrogen Cyanide
Acid Gases	Chlorine Gas Hydrochloric Acid Sulfuric Acid
Other Common Compounds	Carbon Monoxide Hydrogen
Common Examples by Industry	
<i>Industry Application</i>	<i>Solution</i>
Automotive Painting	Rotor Concentrator + RTO
Ventilation Air Methane	VAM RTO
Tank Loading/Unloading Stations	TO or Carbon Adsorber
Landfill Gas	TRO