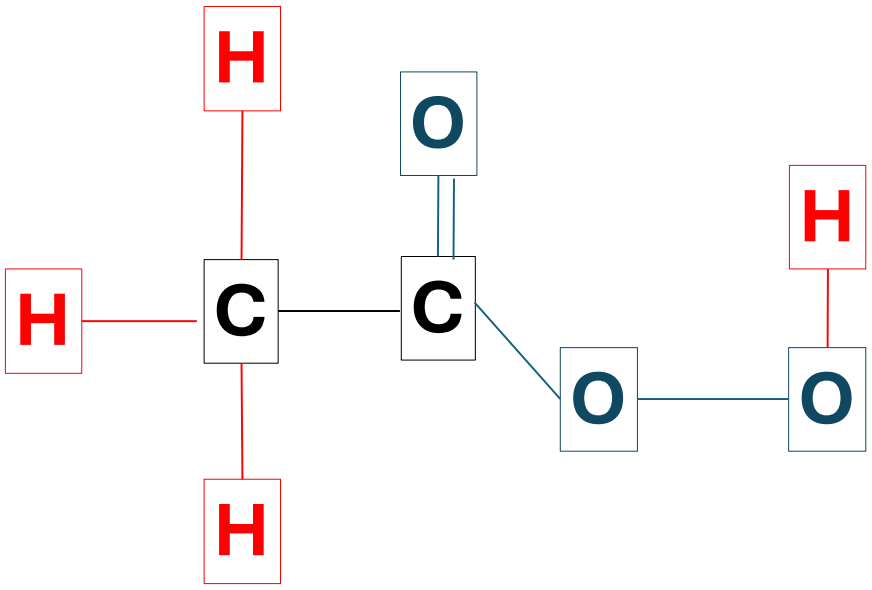
Chemical of the Week – Part 2

Hazard Profile	
Chemical Name and Pseudonyms	Peracetic Acid, Peroxyacetic Acid, PAA, Ethaneperoxoic acid, 79-21-0
UN Number	
Chemical Formula	CH_3COOH
Hazards	Combustible, corrosive liquid, organic peroxide
NFPA Hazard Class (**H-F-R-O**)	**3 – 2 – 4 – OX**
PPE Considerations	CPC or SFPC with SCBA based on assignment
Fire Fighting Considerations	Water
Decontamination	Water or water with surfactant
Detection and Monitoring	Colormetric, spectroscopy
Chemical and Physical Properties	
Physical State	Colorless liquid with pungent odor
Vapor Pressure	14.5 mm/Hg
Boiling Point	221°F
Vapor Density	2.6
Specific Gravity	1.2
Miscibility	Miscible in water
Flash Point	143.6°F
LEL/UEL	~ 4% / 19%
Autoignition Temp	392°F
pH	~1
Toxicity	
IDLH	250 mg/m^3
AEGL1/AEGL 2/AEGL 3 – 10 Min	.52 / 1.6 / 60 mg/kg
Protective Action Criteria (PAC) 1/2/3	.52 / 1.6 / 15 mgkg
PEL/REL/STEL	/ /.4 ppm
LD50	
LC50	
Radioactive (Yes/No)	No
Medical	
Toxicological Considerations	Strong acid, skin toxicity, toxic by inhalation
Signs/Symptoms of Exposure	Respiratory s/s, irritation/burning of skin/eyes/respiratory tract
Medical Treatment	Fresh air, water flush, treat symptomatically
Other Information	
Incompatible/reacts with bases, organic material, metals. May enter thermal decomposition.	

Chemical Structure