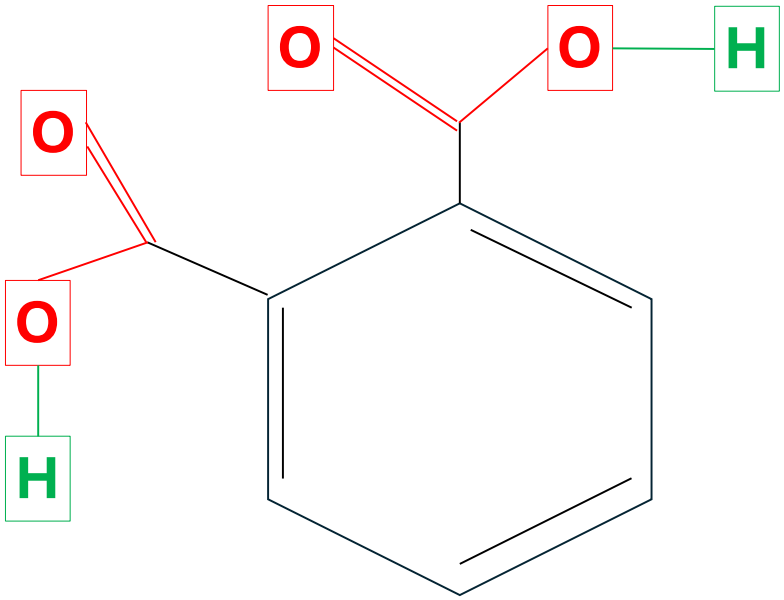
Chemical of the Week – Part 2

Hazard Profile	
Chemical Name and Pseudonyms	Phthalic Acid, 1,2-Benzenedicarboxylic acid, 88-99-3, o-phthalic acid benzene-1,2-dicarboxylic acid
UN Number	-
Chemical Formula	$C_8H_6O_4$ $C_6H_4(COOH)_2$
Hazards	Corrosive liquid (in solution)
PPE Considerations	SFPC or CPC with SCBA depending on task assignment
Fire Fighting Considerations	Water, dry chemical, CO_2, ATC AFFF
Decontamination	Water with surfactant
Detection and Monitoring	Colormetric, PID IP = 10.00 ev, spectroscopy
Chemical and Physical Properties	
Physical State	Colorless solid in solution
Vapor Pressure	.00000064-.0015 mm/Hg
Boiling Point	Decomposes
Vapor Density	5.73
Specific Gravity	~1.6 in solid form
Miscibility	.6%
Flash Point	334°F
LEL/UEL	1.7%/10.5%
Autoignition Temp	-
pH	2 in solution
Toxicity	
IDLH	60 mg/m^3
AEGL1/AEGL 2/AEGL 3 – 10 Min	-/-/- ppm
Protective Action Criteria (PAC) 1/2/3	24/260/1600 mg/m^3 Note:
PEL/REL/STEL	2/1 /- ppm
LD50	7.9 g/kg
LC50	-
Radioactive (Yes/No)	No
Medical	
Toxicological Considerations	Strong acid in solution
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 with strong oxidizers	

Chemical Structure