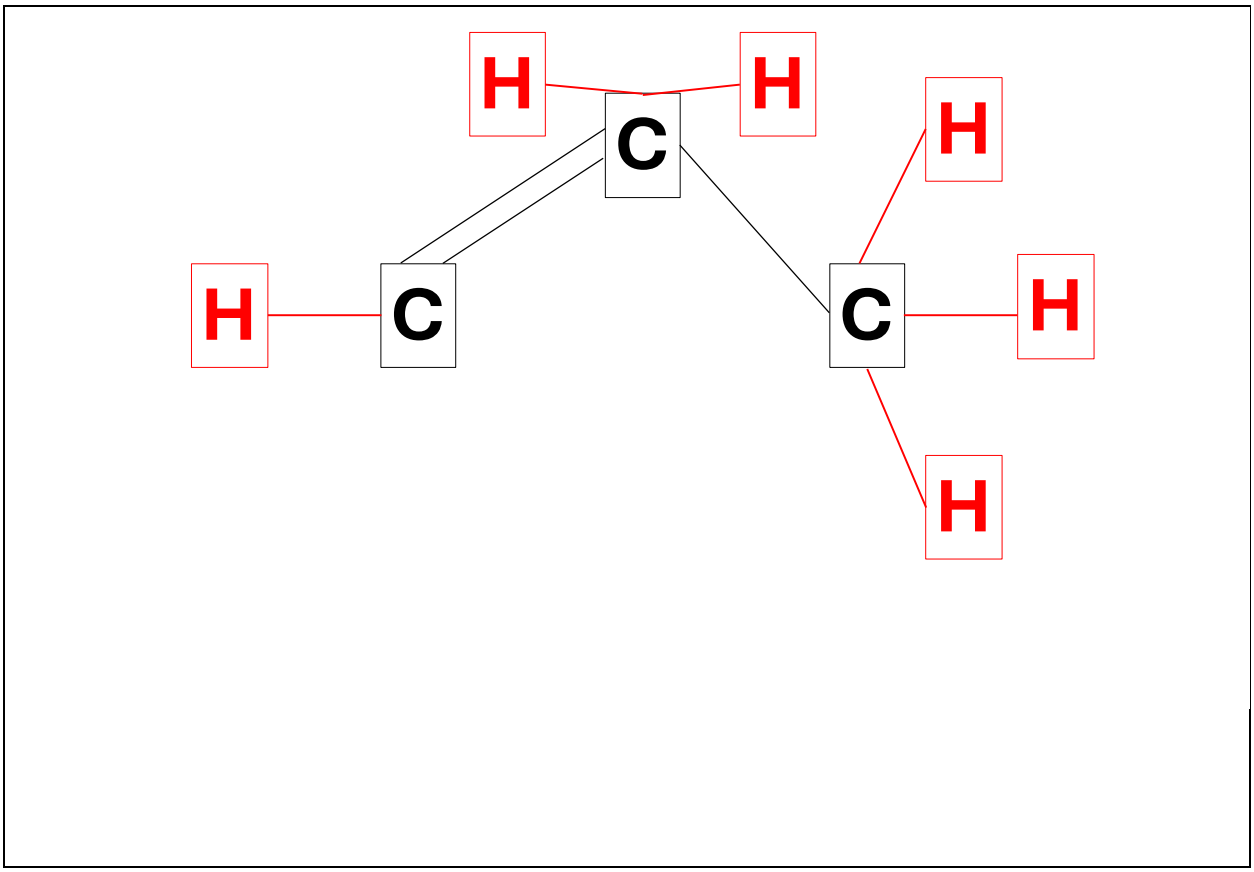
Chemical of the Week – Part 2

Hazard Profile	
Chemical Name and Pseudonyms	Propylene, 1-Propene, Methylene, R1270
UN Number	1077
Chemical Formula	C_3H_6
Hazards	Flammable, compressed gas with polymerization potential
PPE Considerations	SFPC with SCBA
Fire Fighting Considerations	Use extinguishing method appropriate for nearby flammables
Decontamination	Ventilation, Water/soap & water
Detection and Monitoring	CGI, PID IP = 9.73 ev, spectroscopy
Chemical and Physical Properties	
Physical State	Colorless gas
Vapor Pressure	10 ATM
Boiling Point	-54°F (explodes)
Vapor Density	1.5
Specific Gravity	1.65
Miscibility	Miscible
Flash Point	-
LEL/UEL	2%/11%
Autoignition Temp	851°F
pH	-
Toxicity	
IDLH	2100 ppm (10% LEL)
AEGL1/AEGL 2/AEGL 3 – 10 Min	-
Protective Action Criteria (PAC) 1/2/3	1500/2800/17000 ppm
PEL/REL/STEL	-/-/-
LD50	<5gm/kg
LC50	5000 ppm
Radioactive (Yes/No)	No
Medical	
Toxicological Considerations	Toxic by inhalation
Signs/Symptoms of Exposure	Respiratory s/s, CNS s/s
Medical Treatment	Fresh air, treat symptomatically
Other Information	
Polymerization hazard	
Chemical Structure	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