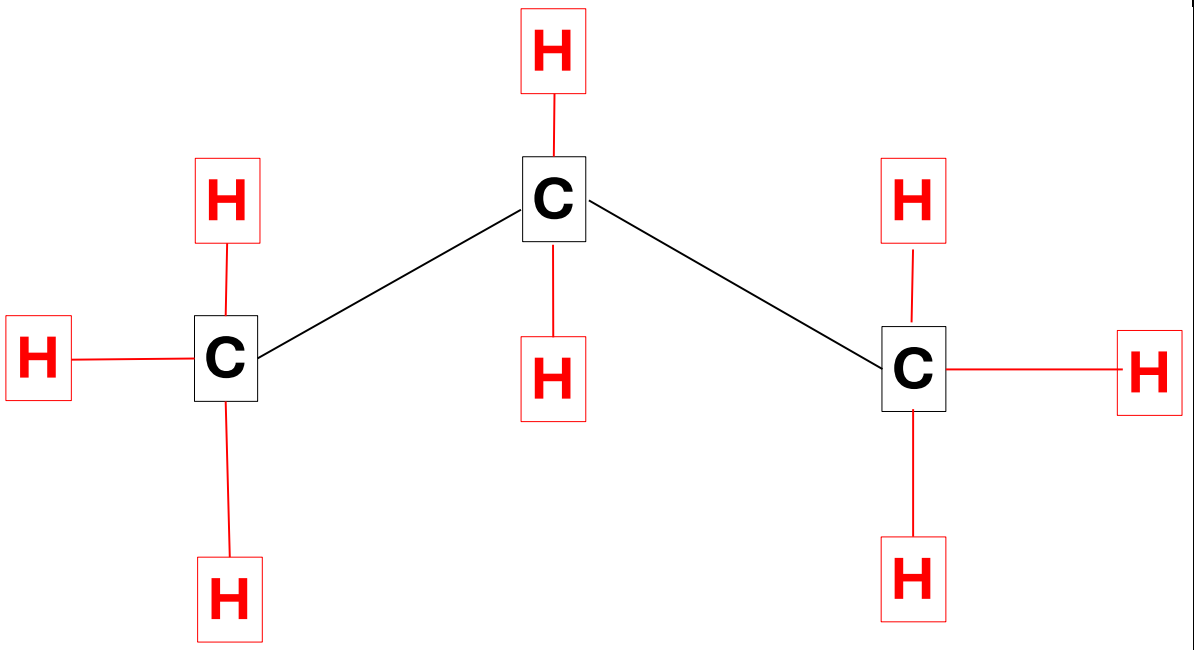
Chemical of the Week – Part 2

Hazard Profile	
Chemical Name and Pseudonyms	Propane , Dimethyl methane, n-propane, LPG, 74-98-6
UN Number	1075, 1978
Chemical Formula	$CH_3CH_2CH_3$
Hazards	Liquified, flammable gas
PPE Considerations	SFPC with SCBA
Fire Fighting Considerations	CO_2, dry chemical
Decontamination	Ventilation
Detection and Monitoring	Colormetric, electrochemical sensor, PID IP = 11.07 ev, spectroscopy
Chemical and Physical Properties	
Physical State	Colorless odorless gas with odorant added for most applications
Vapor Pressure	8.4 ATM
Boiling Point	~44°F
Vapor Density	~4.4
Specific Gravity	~1.55
Miscibility	Insoluble in water
Flash Point	-
LEL/UEL	2.1% / 9.5%
Autoignition Temp	842°F
pH	-
Toxicity	
IDLH	2100 ppm
PEL/REL/STEL	1000 ppm/1000 ppm/1000 ppm
LD50	-
LC50	~20,000 ppm
Radioactive (Yes/No)	No
Medical	
Toxicological Considerations	Asphyxiant gas
Signs/Symptoms of Exposure	Respiratory symptoms, frostbite if contact with liquid chest tightness, CNS
Medical Treatment	Fresh air and treat symptomatically
Other Information	
Strong oxidizers	

Chemical Structure