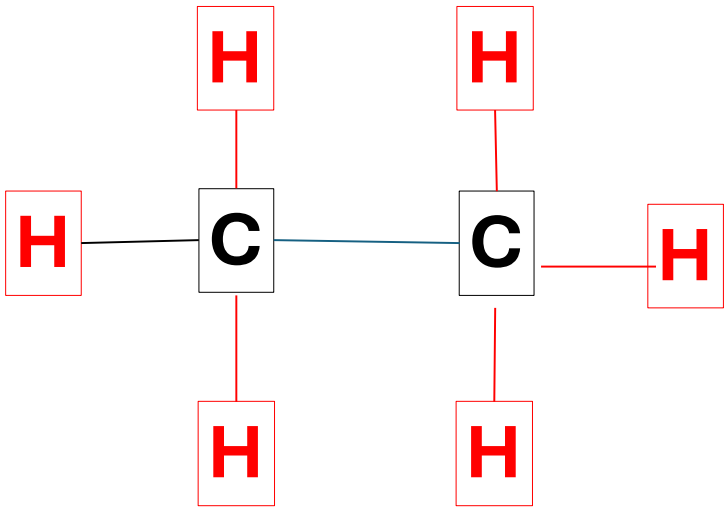
Chemical of the Week – Part 2

Hazard Profile	
Chemical Name and Pseudonyms	Ethane, Bimethyl, Dimethyl, Methylmethane, Ethyl hydride, 74-84-0
UN Number	1035
Chemical Formula	C_2H_6
Hazards	Flammable, expansion ratio, asphyxiant
NFPA Hazard Class (H-F-R-Ⓞ)	1 – 4 – 0 –
PPE Considerations	SFPC with SCBA
Fire Fighting Considerations	Extinguishing method appropriate for nearby combustibles, use water to cool exposed tanks
Decontamination	Flushing water or forced air ventilation
Detection and Monitoring	CGI, spectroscopy, PID (IP = 11.52-11.57 eV)
Chemical and Physical Properties	
Physical State	Colorless, odorless gas
Vapor Pressure	~40 ATM
Boiling Point	-258°F
Vapor Density	1.04
Specific Gravity	.546
Miscibility	.002%
Flash Point	-
LEL/UEL	3 %/ 12.4%
Autoignition Temp	-
pH	-
Toxicity	
IDLH	3000 ppm (10% LEL)
LC50	-
LD50	-
AEGL1/AEGL 2/AEGL (10 Min)	- / - / - ppm
Emergency Response Planning Guide (ERPG) 1/2/3	- / - / - ppm
Protective Action Criteria (PAC) 1/2/3	65000 / 230000 / 400000 ppm
PEL/REL/STEL	/ -/ - ppm
Radioactive (Yes/No)	No
Medical	
Toxicological Considerations	Contact hazard (frostbite), inhalation hazard
Signs/Symptoms of Exposure	Respiratory/skin/eye irritation, CNS s/s
Medical Treatment	Fresh air, water flush, treat symptomatically

Other Information
Incompatible with strong oxidizing agents
Chemical Structure