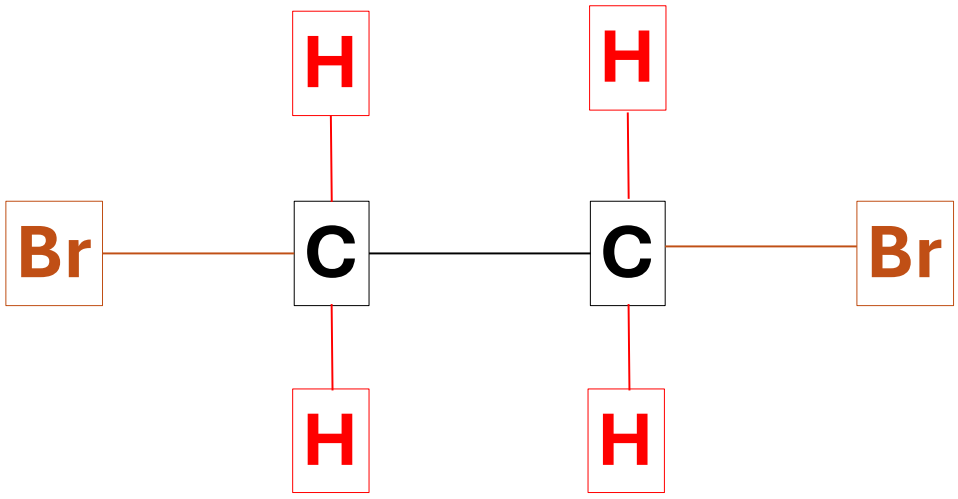
Chemical of the Week – Part 2

Hazard Profile	
Chemical Name and Pseudonyms	Ethylene dibromide, 1, 2-Dibromoethene, Ethylene bromide, Glycol dibromide, 106-93-4
UN Number	1605
Chemical Formula	$BrCH_2CH_2Br$
Hazards	Corrosive, toxic
NFPA Hazard Class (H-F-R-Ⓞ)	3 – 0 – 0 –
PPE Considerations	CPC or SFPC with SCBA based on assignment
Fire Fighting Considerations	Dry chem, CO2, or water spay. Releases toxic, irritating gases
Decontamination	Flushing water or water with surfactant, Dahlgren
Detection and Monitoring	Colorimetric, spectroscopy, PID (IP = 9.45 eV)
Chemical and Physical Properties	
Physical State	Clear, colorless liquid
Vapor Pressure	12 mmHg
Boiling Point	169°F
Vapor Density	6.48
Specific Gravity	2.17
Miscibility	.4%
Flash Point	-
LEL/UEL	- / -
Autoignition Temp	-
pH	-
Toxicity	
IDLH	100 ppm (Ca)
LC50	1831 ppm
LD50	108 mg/kg (dermal)
AEGL1/AEGL 2/AEGL (10 Min)	52 / 73 / 170 ppm
Emergency Response Planning Guide (ERPG) 1/2/3	- / - / - ppm
Protective Action Criteria (PAC) 1/2/3	17 / 24 / 46 ppm
PEL/REL/STEL	20 /Ca / - ppm
Radioactive (Yes/No)	No
Medical	
Toxicological Considerations	Inhalation, ingestion, and contact hazard
Signs/Symptoms of Exposure	Respiratory/skin/eye irritation, CNS s/s, chemical burns
Medical Treatment	Fresh air, water flush, treat symptomatically

Other Information
Decomposes in the presence of light and heat. May decompose upon contact with alkalis. Incompatible with oxidizing agents. Reacts with sodium, potassium, calcium, powdered aluminum, zinc, magnesium and liquid ammonia.. Corrosive to iron and other metals.
Chemical Structure