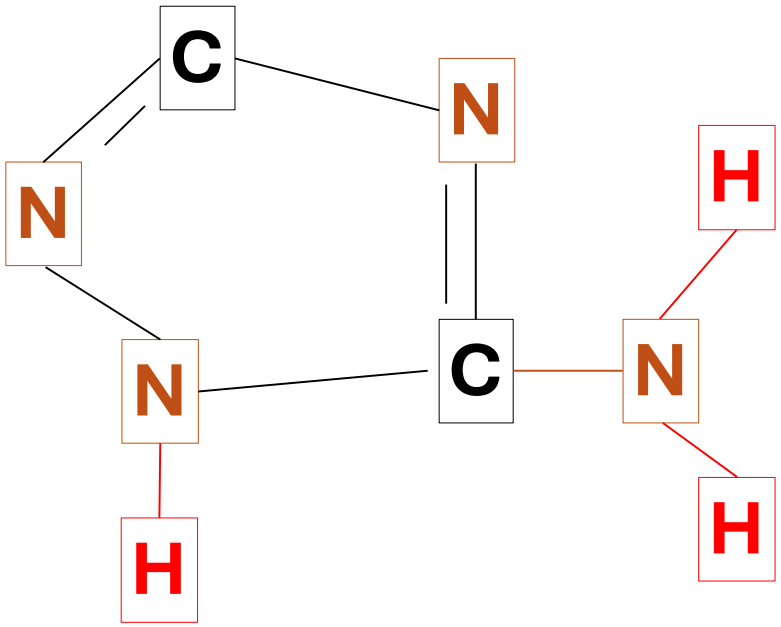
Chemical of the Week – Part 2

Hazard Profile	
Chemical Name and Pseudonyms	Amitrole, Aminotriazole, 3-Aminotriazole, 2-Amino-1, 3, 4-triazole, 3-Amino-1, 2, 4-triazole, 1H-1,2,4-Triazol-5-amine, 1H-1,2,4-Triazol-3-amine, 61-82-5
UN Number	
Chemical Formula	$C_2H_4N_4$
NFPA Hazard Class (H-F-R-Ⓞ)	2 – 1 – 0 -
Hazards	Carcinogen, irritating to skin, eyes, and respiratory tract. May decompose in elevated temperatures
PPE Considerations	CPC or SFPC with SCBA or appropriate filter cartridge based on assignment
Fire Fighting Considerations	Water, CO_2, dry chem, ATC AFFF
Decontamination	Water or water with surfactant.
Detection and Monitoring	Spectroscopy (FTIR, GCMS, Raman) colorimetric,
Chemical and Physical Properties	
Physical State	Colorless rto white crystalline powder that forms polar solutions in water.
Vapor Pressure	<.000008 nn/Hg
Boiling Point	-
Vapor Density	2.9
Specific Gravity	1.13
Miscibility/Solubility	Soluble in water
Flash Point	-
LEL/UEL	- / - %
Autoignition Temp	-
pH	-
Toxicity	
IDLH	Ca
AEGL1/AEGL 2/AEGL 3 – 10 Min	- / - / -
Protective Action Criteria (PAC) 1/2/3	.6 / 23/ 220 mg/kg^3
Emergency Response Planning Guides (ERPG)	- / - / - ppm
PEL/REL/STEL	.2 / .2 (vacated) / .2 mg/kg^3
LD50	1100 mg/kg (oral) >10000 mg/kg (dermal)
LC50	>439 mg/kg^3
Radioactive (Yes/No)	No

Medical	
Toxicological Considerations	Poisonous, carcinogen
Signs/Symptoms of Exposure	Irritation or eyes, skin, mucosa, shortness of breath, coughing, wheezing, chest pain, foaming sputum, muscle spasms, increasing body temp
Medical Treatment	Fresh air, water flush, antidote, treat symptomatically
Other Information	
May dissolve into flammable liquid, releases oxides of nitrogen when heated, heat sensitive and may violently decompose when heated, incompatible with strong oxidizers, strong acids, acid chlorides and acid anhydrides	
Chemical Structure