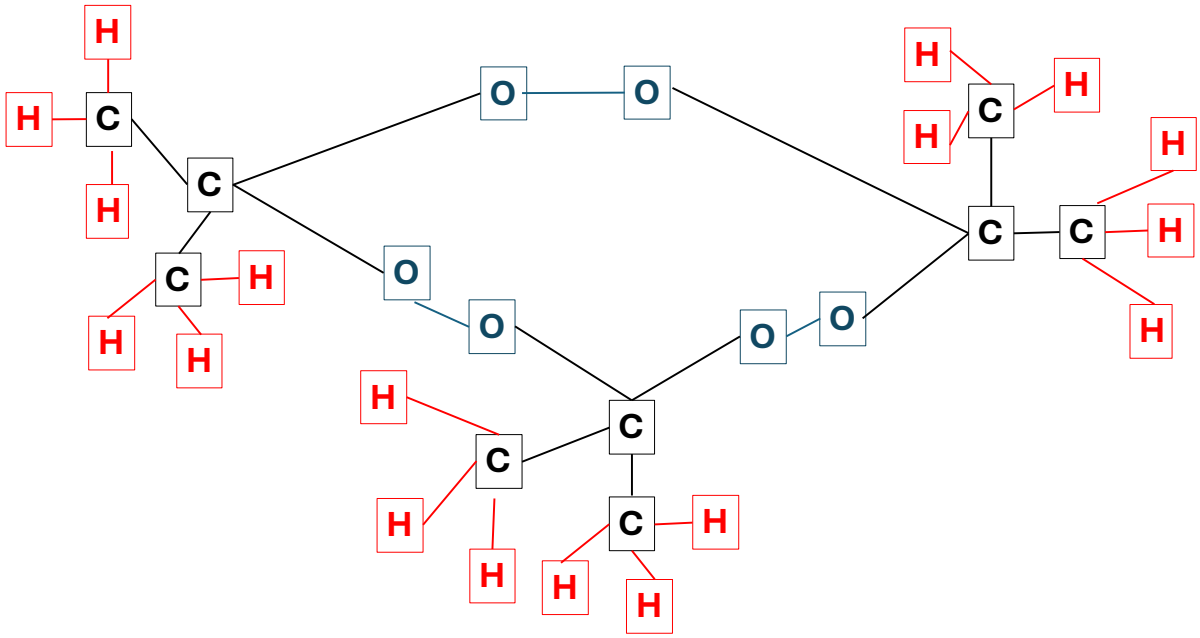
**Chemical of the Week – Part 2**

| Hazard Profile | |
|---|---|
| Chemical Name and Pseudonyms | Triacetone triperoxide, 17088-37-8, TATP 3,3,6,6,9,9-hexamethyl-1,2,4,5,7,8-hexaoxonane, |
| UN Number | - |
| Chemical Formula | $C_9H_{18}O_6$ |
| Hazards | Extremely sensitive explosive |
| PPE Considerations | SFPC with SCBA |
| Fire Fighting Considerations | Evacuate area, do not fight fire |
| Decontamination | Soap and water, chemical degradation |
| Detection and Monitoring | GCMS, FTIR, PID IP = 11.3-11.8 ev |
| **Chemical and Physical Properties** | |
| Physical State | Crystaline solid often shipped in liquid |
| Vapor Pressure | - |
| Boiling Point | - |
| Vapor Density | - |
| Specific Gravity | - |
| Miscibility | Insoluble |
| Flash Point | - |
| LEL/UEL | - |
| Autoignition Temp | - |
| pH | - |
| **Toxicity** | |
| IDLH | - |
| PEL/REL/STEL | - **/**- **/**- |
| LD50 | - |
| LC50 | - |
| Radioactive (Yes/No) | No |
| **Medical** | |
| Toxicological Considerations | - |
| Signs/Symptoms of Exposure | - |
| Medical Treatment | Treat symptomatically |
| **Other Information** | |
| Shock, temperature, friction, and air sensitive (may explode). If shipped commercially, additional hazards may be present.<br>This is a very sensitive materials used in the manufacture of improvised explosive devices. Do not attempt to fight if involved in fire. | |

For more information,
https://www.dni.gov/files/NCTC/documents/jcat/firstresponderstoolbox/78--NCTC-DHS-FBI---Triacetone-Triperoxide-(TATP)-.pdf

**Chemical Structure**