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ERRATUM

# Erratum to: Current trends in the detection of peroxide-based explosives

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Following publication the authors found a mistake in Table 1 of this contribution. The corrected Table 1 is given below.

The online version of the original article can be found at http://dx.doi.org/10.1007/s00216-009-2968-5.

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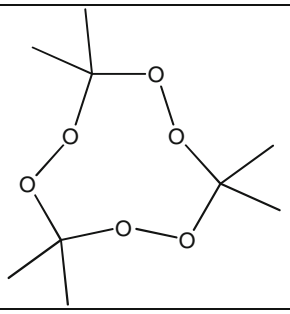
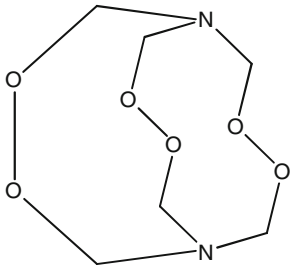
**Table 1** Key physical and chemical properties of triacetone triperoxide (*TATP*) and hexamethylene triperoxide diamine (*HMTD*)

| |  |  |
|---|---|---|
| | TATP | HMTD |
| Formula | $C_9H_{18}O_6$ | $C_6H_{12}N_2O_6$ |
| Formula weight (g/mol) | 222.24 | 208.17 |
| Melting point (°C) | 96 | 148 |
| Density (g $mL^{-1}$) | 1.2 | 1.6 |
| Vapor pressure (Pa) | 7.87 | Not determined, due to reduced thermal stability and vapor phase decomposition |
| Enthalpy of sublimation (kJ $mol^{-1}$) | 72.5 | 76.2 |
| Detonation velocity (km $s^{-1}$) | 5.3 | 5.1 |
| TNT equivalence | 88% | 60% |
| TNT vapor pressure (Pa) | 0.0005 (15ºC)<br>0.00173 (25ºC) | |

The melting points, densities, detonation velocities, and trinitrotoluene (*TNT*) equivalence data were taken from Ref. [7]. TNT equivalence compares blast over pressure or impulse of the explosive of interest to a similar amount of TNT. Data for the TATP and HMTD vapor pressures and enthalpies of sublimation were acquired from Ref. [76]. The TNT vapor pressure value is from Ref. [76].

Corrected citation for Ref. 76: Oxley JC, Smith JL, Lou W, Brady J, Propellants Explos Pyrotech, in press.