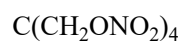




>>Entry Name: Pentaerithrityl tetranitrate, INN

Synonym(s): 2,2-Bis[(nitrooxy)methyl]-1,3-propanediol dinitrate, 9CI. Pentaerythritol tetranitrate, BAN. Cardiacap. Erinit. Extex. Mycardiol. Neopentanetetranylnitrate. Niperyt. Nitrolong. Nitropenta. Nitropentaerythritol. Nitropenton. Pentanitrol. Penthrit. Pentrite. Peritrate. Vasolat. PETN

CAS Registry Number: 78-11-5



Molecular Formula: $\text{C}_5\text{H}_8\text{N}_4\text{O}_{12}$

Molecular Weight: 316.138

Accurate Mass: 316.013876

Percentage Composition: C 19.00%; H 2.55%; N 17.72%; O 60.73%

Use/Importance: Explosive, used in the manuf. of detonating fuses. Vasodilator. Smooth muscle relaxant

Physical Description: Prisms ($\text{Me}_2\text{CO}/\text{EtOH}$)

Melting Point: Mp 138-140°

Solubility: Prac. insol. H_2O ; spar. sol. EtOH , Et_2O

Calculated Log P Data: Log P 1.61 (calc)

Hazard & Toxicity: Heat- or shock-sensitive explosive

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