



>>Entry Name: Amifostine, BAN, INN, USAN

Synonym(s): 2-[(3-Aminopropyl)amino]ethanethiol dihydrogen phosphate, 8Cl. Ethiofos. Ethyol. Fosteamine. Gammaphos. APAETF. SAPEP. NSC 296961. WR 2721. YM 038310Ed

CAS Registry Number: 20537-88-6

Related CAS Registry Numbers(s): 63717-27-1

$\text{H}_2\text{NCH}_2\text{CH}_2\text{CH}_2\text{NHCH}_2\text{CH}_2\text{SP(O)(OH)}_2$

Molecular Formula: $\text{C}_5\text{H}_{15}\text{N}_2\text{O}_3\text{PS}$

Molecular Weight: 214.225

Accurate Mass: 214.0541

Percentage Composition: C 28.03%; H 7.06%; N 13.08%; O 22.41%; P 14.46%; S 14.97%

Use/Importance: Radioprotective and mucolytic agent. Protects mice against cisplatin-induced nephrotoxicity and myelosuppression

Development Status: Launched 1995 (Germany)

Melting Point: Mp 160-161°

Hazard & Toxicity: LD₅₀ (mus, orl) 842 mg/kg. Exp. reprod. and teratogenic effects

Sigma: A5922

References:

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Karle, J.M. *et al.*, *Acta Cryst. C*, 1988, **44**, 135, (*cryst struct*)
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