



>>Entry Name: 2-Phosphonopropanoic acid, 9CI

CAS Registry Number: 5962-41-4

Related CAS Registry Numbers(s): 70662-22-5

$(\text{HO})_2\text{P}(\text{O})\text{CH}(\text{CH}_3)\text{COOH}$

Molecular Formula: $\text{C}_3\text{H}_7\text{O}_5\text{P}$

Molecular Weight: 154.059

Accurate Mass: 154.003112

Percentage Composition: C 23.39%; H 4.58%; O 51.93%; P 20.11%

>>Variant: ($\pm$)-form

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Use/Importance: Inhibitor of some DNA polymerases incl. that of herpes simplex virus

Physical Description: Syrup which slowly cryst.

Melting Point: Mp 75-95°. Mp 105-109 119-132°

pKa Value: $\text{p}K_{\text{a}3}$ 8.54 (25°, H_2O)

References:

Heubel, P.H.C. *et al.*, *J. Solution Chem.*, 1979, **8**, 615, (*props*)

Eriksson, B. *et al.*, *Biochim. Biophys. Acta*, 1982, **696**, 115, (*props*)