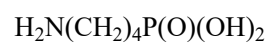




>>Entry Name: (4-Aminobutyl)phosphonic acid, 9Cl

CAS Registry Number: 35622-27-6



Molecular Formula: $\text{C}_4\text{H}_{12}\text{NO}_3\text{P}$

Molecular Weight: 153.117

Accurate Mass: 153.055481

Percentage Composition: C 31.38%; H 7.90%; N 9.15%; O 31.35%; P 20.23%

Physical Description: Cryst. (H_2O)

Melting Point: Mp 133-134°

Solubility: Sl. sol. EtOH

pKa Value: $\text{p}K_{\text{a}1}$ 2.55; $\text{p}K_{\text{a}2}$ 7.55; $\text{p}K_{\text{a}3}$ 10.9

Sigma: A0664

>>Derivative: Di-Et ester

Synonym(s): Diethyl (4-aminobutyl)phosphonate

CAS Registry Number: 53253-54-6

Molecular Formula: $\text{C}_8\text{H}_{20}\text{NO}_3\text{P}$

Molecular Weight: 209.225

Accurate Mass: 209.118081

Percentage Composition: C 45.93%; H 9.63%; N 6.69%; O 22.94%; P 14.80%

Physical Description: Liq.

Boiling Point: $\text{Bp}_{0.002}$ 77°

References:

Chavane, V., *C. R. Hebd. Seances Acad. Sci.*, 1947, **224**, 406

Glowacki, Z. *et al.*, *Magn. Reson. Chem.*, 1989, **27**, 897, (*cmr*, *P-31 nmr*)

Cameron, D.G. *et al.*, *Phosphorus, Sulfur, Silicon, Relat. Elem.*, 1993, **83**, 21, (*ms*, *pmr*, *cmr*, *P-31 nmr*)