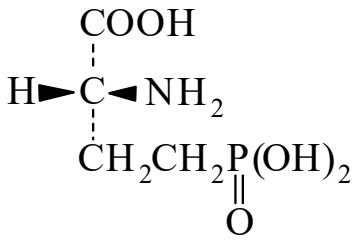
>>**Entry Name: 2-Amino-4-phosphonobutanoic acid,** 9CI



(*R*)-*form*

CAS Registry Number: 6323-99-5
Related CAS Registry Numbers(s): 86879-10-9 145236-29-9

Molecular Formula: $C_4H_{10}NO_5P$
Molecular Weight: 183.1
Accurate Mass: 183.029661
Percentage Composition: C 26.24%; H 5.50%; N 7.65%; O 43.69%; P 16.92%
Biological Use/Importance: Inhibits glutamine synthetase and glutamate dehydrogenase. Metabotropic glutamate receptor agonist. Shows antiviral activity

>>**Variant:** (*R*)-form
Synonym(s): D-form
CAS Registry Number: 78739-01-2

Molecular Formula: $C_4H_{10}NO_5P$
Molecular Weight: 183.1
Accurate Mass: 183.029661
Percentage Composition: C 26.24%; H 5.50%; N 7.65%; O 43.69%; P 16.92%
Physical Description: Cryst. (EtOH aq.)
Melting Point: Mp 229-231°
Optical Rotation: $[\alpha]_D^{20}$–26.9
Sigma: A7804

>>**Variant:** (*S*)-form
Synonym(s): L-form. L-AP4

CAS Registry Number: 23052-81-5

Molecular Formula: $C_4H_{10}NO_5P$
Molecular Weight: 183.1
Accurate Mass: 183.029661
Percentage Composition: C 26.24%; H 5.50%; N 7.65%; O 43.69%; P 16.92%
Optical Rotation: $[\alpha]_D^{30}$+19.5 (c, 0.44 in 6*M* HCl)
Other Data: Pharmacol. active isomer
Sigma: A7929

>>**Variant:** (±)-form

CAS Registry Number: 20263-07-4
Molecular Formula: $C_4H_{10}NO_5P$
Molecular Weight: 183.1
Accurate Mass: 183.029661
Percentage Composition: C 26.24%; H 5.50%; N 7.65%; O 43.69%; P 16.92%
Aldrich: 36737-0
Sigma: A1910

>>**Derivative:** *N*-Benzoyl
Synonym(s): 2-Benzoylamino-4-phosphonobutanoic acid

Molecular Formula: $C_{11}H_{14}NO_6P$
Molecular Weight: 287.208
Accurate Mass: 287.055876
Percentage Composition: C 46.00%; H 4.91%; N 4.88%; O 33.42%; P 10.78%
Physical Description: Cryst. (dioxan aq.)
Melting Point: Mp 197°