

4-Aminobutanoic acid

Other names:	.gamma.-aminobutyric acid
	.omega.-aminobutyric acid
	3-carboxypropylamine
	4-Amino-n-butyric acid
	4-aminobutanoic acid [GABA]
	4-aminobutyric acid
	Aminalon
	Aminobutyric acid,-4-
	Butanoic acid, 4-amino-
	Butyric acid, 4-amino-
	DF 468
	GABA
	Gaballon
	Gamarex
	Gamastan
	Gammagee
	Gammalon
	Gammalone
	Gammar
	Gammasol
	Gamulin
	Globulin, immune human serum
	Immu-G
	Immuglobin
	Mielogen
	Mielomade
	NSC 27418
	Reanal
	piperidic acid
	piperidinic acid
	«gamma»-Amino-n-butyric acid
	«gamma»-Aminobutanoic acid
	«gamma»-Aminobutyric acid
	«omega»-Aminobutyric acid
Inchi:	InChI=1S/C4H9NO2/c5-3-1-2-4(6)7/h1-3,5H2,(H,6,7)
InchiKey:	BTCSSZJGUNDROE-UHFFFAOYSA-N
Formula:	C4H9NO2
SMILES:	NCCCC(=O)O
Mol. weight [g/mol]:	103.12
CAS:	56-12-2

Physical Properties

Property code	Value	Unit	Source
chs	-2280.00 ± 4.70	kJ/mol	NIST Webbook
chs	-2279.23 ± 0.11	kJ/mol	NIST Webbook
chs	-2282.40 ± 0.84	kJ/mol	NIST Webbook
gf	-216.49	kJ/mol	Joback Method
hf	-441.00 ± 2.00	kJ/mol	NIST Webbook
hfs	-581.10 ± 0.30	kJ/mol	NIST Webbook
hfs	-561.00 ± 4.70	kJ/mol	NIST Webbook
hfus	17.00	kJ/mol	Joback Method
hsub	140.00 ± 2.00	kJ/mol	NIST Webbook
hvap	58.56	kJ/mol	Joback Method
ie	8.70	eV	NIST Webbook
ie	9.60	eV	NIST Webbook
log10ws	-0.03		Crippen Method
logp	-0.190		Crippen Method
mcvol	84.640	ml/mol	McGowan Method
pc	5175.72	kPa	Joback Method
tb	509.50	K	Joback Method
tc	695.04	K	Joback Method
tf	328.85	K	Joback Method
vc	0.314	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	222.70	J/mol×K	664.11	Joback Method
cpg	190.29	J/mol×K	509.50	Joback Method
cpg	197.41	J/mol×K	540.42	Joback Method
cpg	204.20	J/mol×K	571.35	Joback Method
cpg	210.68	J/mol×K	602.27	Joback Method
cpg	216.84	J/mol×K	633.19	Joback Method
cpg	228.27	J/mol×K	695.04	Joback Method
cps	146.40	J/mol×K	298.15	NIST Webbook
cps	133.60	J/mol×K	298.00	NIST Webbook
hsubt	140.00 ± 2.00	kJ/mol	395.00	NIST Webbook

hvap:	Enthalpy of vaporization at standard conditions
hvapt:	Enthalpy of vaporization at a given temperature
ie:	Ionization energy
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

Latest version available from:

<https://www.cheméo.com/cid/11-732-6/4-Aminobutanoic-acid.pdf>

Generated by Cheméo on 2025-12-23 18:00:09.693778564 +0000 UTC m=+6261007.223819228.

Cheméo (<https://www.cheméo.com>) is the biggest free database of chemical and physical data for the process industry.