Benzeneacetamide, «alpha»-amino-

Other names: Acetamide, 2-amino-2-phenyl-
2-Amino-2-phenylacetamide
Inchi: InChI=1S/C8H10N2O/c9-7(8(10)11)6-4-2-1-3-5-6/h1-5,7H,9H2,(H2,10,11)
InchiKey: KIYRSYYOVDHSPG-UHFFFAOYSA-N
Formula: C8H10N2O
SMILES: NC(=O)C(N)c1ccccc1
Mol. weight [g/mol]: 150.18
CAS: 700-63-0

Physical Properties

Property code	Value	Unit	Source
gf	130.43	kJ/mol	Joback Method
hf	-22.20	kJ/mol	Joback Method
hfus	18.99	kJ/mol	Joback Method
hvap	63.32	kJ/mol	Joback Method
log10ws	-1.38		Crippen Method
logp	0.172		Crippen Method
mcvol	121.350	ml/mol	McGowan Method
pc	4627.70	kPa	Joback Method
tb	607.61	K	Joback Method
tc	853.74	K	Joback Method
tf	407.79	K	Joback Method
vc	0.433	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	295.95	J/mol×K	607.61	Joback Method
cpg	307.66	J/mol×K	648.63	Joback Method
cpg	318.43	J/mol×K	689.65	Joback Method
cpg	328.33	J/mol×K	730.68	Joback Method
cpg	337.40	J/mol×K	771.70	Joback Method
cpg	345.69	J/mol×K	812.72	Joback Method
cpg	353.25	J/mol×K	853.74	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C700630&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Joback Method:	https://en.wikipedia.org/wiki/Joback_method
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772

Legend

cpg:	Ideal gas heat capacity
gf:	Standard Gibbs free energy of formation
hf:	Enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
hvap:	Enthalpy of vaporization at standard conditions
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