(R)-(-)-2-Phenylglycinol

Other names: Benzeneethanol, «beta»-amino-, (R)-
(R)-«beta»-aminophenethyl alcohol
Inchi: InChI=1S/C8H11NO/c9-8(6-10)7-4-2-1-3-5-7/h1-5,8,10H,6,9H2/t8-/m1/s1
InchiKey: IJXJGQCXFSSHNL-MRVPVSSYSA-N
Formula: C8H11NO
SMILES: NC(CO)c1ccccc1
Mol. weight [g/mol]: 137.18
CAS: 56613-80-0

Physical Properties

Property code	Value	Unit	Source
gf	56.08	kJ/mol	Joback Method
hf	-95.64	kJ/mol	Joback Method
hfus	16.28	kJ/mol	Joback Method
hvap	62.61	kJ/mol	Joback Method
log10ws	-1.43		Crippen Method
logp	0.679		Crippen Method
mcvol	115.670	ml/mol	McGowan Method
pc	4456.32	kPa	Joback Method
tb	573.39	K	Joback Method
tc	784.75	K	Joback Method
tf	335.42	K	Joback Method
vc	0.417	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	276.53	J/mol×K	573.39	Joback Method
cpg	287.40	J/mol×K	608.62	Joback Method
cpg	297.57	J/mol×K	643.84	Joback Method
cpg	307.08	J/mol×K	679.07	Joback Method
cpg	315.94	J/mol×K	714.30	Joback Method
cpg	324.21	J/mol×K	749.52	Joback Method
cpg	331.92	J/mol×K	784.75	Joback Method

Sources

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
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C56613800&Units=SI

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