Benzenamine, 4-(phenylmethyl)-

Inchi: InChI=1S/C13H13N/c14-13-8-6-12(7-9-13)10-11-4-2-1-3-5-11/h1-9H,10,14H2
InchiKey: WDTRNCFZFQIWLM-UHFFFAOYSA-N
Formula: C13H13N
SMILES: Nc1ccc(Cc2ccccc2)cc1
Mol. weight [g/mol]: 183.25
CAS: 1135-12-2

Physical Properties

Property code	Value	Unit	Source
gf	340.22	kJ/mol	Joback Method
hf	183.73	kJ/mol	Joback Method
hfus	22.32	kJ/mol	Joback Method
hvap	60.39	kJ/mol	Joback Method
log10ws	-3.21		Crippen Method
logp	2.860		Crippen Method
mcvol	156.490	ml/mol	McGowan Method
pc	3220.98	kPa	Joback Method
tb	627.71	K	Joback Method
tc	880.71	K	Joback Method
tf	384.89	K	Joback Method
vc	0.577	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	384.23	J/mol×K	627.71	Joback Method
cpg	400.02	J/mol×K	669.88	Joback Method
cpg	414.54	J/mol×K	712.04	Joback Method
cpg	427.85	J/mol×K	754.21	Joback Method
cpg	440.06	J/mol×K	796.37	Joback Method
cpg	451.22	J/mol×K	838.54	Joback Method
cpg	461.44	J/mol×K	880.71	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=C1135122&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

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