Benzenamine, 4-(2-phenylethyl)-

Other names: Aniline, p-phenethyl-
p-Phenethylaniline
4-Aminodibenzyl
Inchi: InChI=1S/C14H15N/c15-14-10-8-13(9-11-14)7-6-12-4-2-1-3-5-12/h1-5,8-11H,6-7,15H2
InchiKey: ZRPMISJEZSOSQC-UHFFFAOYSA-N
Formula: C14H15N
SMILES: Nc1ccc(CCc2ccccc2)cc1
Mol. weight [g/mol]: 197.28
CAS: 13024-49-2

Physical Properties

Property code	Value	Unit	Source
gf	348.64	kJ/mol	Joback Method
hf	163.09	kJ/mol	Joback Method
hfus	24.91	kJ/mol	Joback Method
hvap	62.61	kJ/mol	Joback Method
ie	7.55 ± 0.05	eV	NIST Webbook
log10ws	-3.52		Crippen Method
logp	3.054		Crippen Method
mcvol	170.580	ml/mol	McGowan Method
pc	2896.73	kPa	Joback Method
tb	650.59	K	Joback Method
tc	897.89	K	Joback Method
tf	396.16	K	Joback Method
vc	0.632	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	434.11	J/mol×K	650.59	Joback Method
cpg	450.44	J/mol×K	691.81	Joback Method
cpg	465.49	J/mol×K	733.02	Joback Method
cpg	479.34	J/mol×K	774.24	Joback Method
cpg	492.07	J/mol×K	815.46	Joback Method

cpg	503.76	J/mol×K	856.68	Joback Method
cpg	514.50	J/mol×K	897.89	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C13024492&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
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