benzenamine, N-ethyl-N-phenyl-

Other names: N,N-diphenyl-N-ethylamine
Inchi: InChI=1S/C14H15N/c1-2-15(13-9-5-3-6-10-13)14-11-7-4-8-12-14/h3-12H,2H2,1H3
InchiKey: ITMSSZATZARZCA-UHFFFAOYSA-N
Formula: C14H15N
SMILES: CCN(c1ccccc1)c1ccccc1
Mol. weight [g/mol]: 197.28

Physical Properties

Property code	Value	Unit	Source
af	0.5100		Cheméo Relay (1.0)
gf	402.60	kJ/mol	Joback Method
hf	172.98	kJ/mol	Cheméo Relay (1.0)
hfus	23.12	kJ/mol	Joback Method
hvap	74.52	kJ/mol	Cheméo Relay (1.0)
ie	7.25	eV	Cheméo Relay (1.0)
log10ws	-3.96		Cheméo Relay (1.0)
logp	3.845		Crippen Method
mcvol	170.580	ml/mol	McGowan Method
pc	2764.26	kPa	Joback Method
tb	576.67	K	Cheméo Relay (1.0)
tc	832.84	K	Cheméo Relay (1.0)
tf	285.60	K	Cheméo Relay (1.0)
vc	0.619	m3/kmol	Cheméo Relay (1.0)

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	408.79	J/mol×K	585.52	Joback Method
cpg	426.97	J/mol×K	624.78	Joback Method
cpg	443.75	J/mol×K	664.04	Joback Method
cpg	459.20	J/mol×K	703.29	Joback Method
cpg	473.44	J/mol×K	742.55	Joback Method
cpg	486.53	J/mol×K	781.81	Joback Method
cpg	498.57	J/mol×K	821.07	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C606995&Units=SI
Joback Method:	https://en.wikipedia.org/wiki/Joback_method
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Cheméo Relay (1.0):	
Cheméo Relay (1.0, beta):	

Legend

af:	Acentric Factor
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