2-Norbornanamine, N-ethyl-3-phenyl-

Other names:	2-Ethylamino-3-phenylnorbornane
	Euvitol
	Fenacamfamin
	Fencamfamin
	Fencamfaminum
	2-Phenyl-3-ethylaminobicyclo(2.2.1)heptane
	3-Phenyl-N-ethyl-2-norbornanamine
	Reactivan
	Fencamfamine
	Bicyclo(2.2.1)heptan-2-amine, N-ethyl-3-phenyl-
Inchi:	InChI=1S/C15H21N/c1-2-16-15-13-9-8-12(10-13)14(15)11-6-4-3-5-7-11/h3-7,12-16H,2,8
InchiKey:	IKFBPFGUINLYQI-UHFFFAOYSA-N
Formula:	C15H21N
SMILES:	CCNC1C2CCC(C2)C1c1ccccc1
Mol. weight [g/mol]:	215.33
CAS:	1209-98-9

Physical Properties

Property code	Value	Unit	Source
gf	371.20	kJ/mol	Joback Method
hf	35.83	kJ/mol	Joback Method
hfus	30.06	kJ/mol	Joback Method
hvap	57.08	kJ/mol	Joback Method
log10ws	-3.78		Crippen Method
logp	3.178		Crippen Method
mcvol	186.710	ml/mol	McGowan Method
pc	2278.41	kPa	Joback Method
rinpol	1715.00		NIST Webbook
rinpol	1677.00		NIST Webbook
rinpol	1717.00		NIST Webbook
rinpol	1716.00		NIST Webbook
rinpol	1650.00		NIST Webbook
rinpol	1697.00		NIST Webbook
ripol	2185.00		NIST Webbook
ripol	2193.00		NIST Webbook
ripol	2125.00		NIST Webbook
ripol	2171.00		NIST Webbook

ripol	2125.00		NIST Webbook
tb	627.86	K	Joback Method
tc	854.15	K	Joback Method
tf	361.77	K	Joback Method
vc	0.707	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	528.72	J/mol×K	627.86	Joback Method
cpg	550.12	J/mol×K	665.58	Joback Method
cpg	570.02	J/mol×K	703.29	Joback Method
cpg	588.53	J/mol×K	741.01	Joback Method
cpg	605.74	J/mol×K	778.72	Joback Method
cpg	621.77	J/mol×K	816.44	Joback Method
cpg	636.71	J/mol×K	854.15	Joback Method

Sources

NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C1209989&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
rinpol:	Non-polar retention indices
ripol:	Polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume