Benzenemethanamine, N-ethyl-N-phenyl-

Other names:	Benzylamine, N-ethyl-N-phenyl-
	Benzylethylphenylamine
	Ethylbenzylaniline
	N-Benzyl-N-ethylaniline
	N-Ethyl-N-benzylaniline
	N-Ethyl-N-phenylbenzylamine
	N,N-Benzylethylaniline
	Phenylethylbenzylamine
	UN 2274
	NSC 1805
Inchi:	InChI=1S/C15H17N/c1-2-16(15-11-7-4-8-12-15)13-14-9-5-3-6-10-14/h3-12H,2,13H2,1H3
InchiKey:	HSZCJVZRHXPCIA-UHFFFAOYSA-N
Formula:	C15H17N
SMILES:	CCN(Cc1ccccc1)c1ccccc1
Mol. weight [g/mol]:	211.30
CAS:	92-59-1

Physical Properties

Property code	Value	Unit	Source
gf	411.02	kJ/mol	Joback Method
hf	187.66	kJ/mol	Joback Method
hfus	25.71	kJ/mol	Joback Method
hvap	55.58	kJ/mol	Joback Method
log10ws	-3.91		Crippen Method
logp	3.713		Crippen Method
mcvol	184.670	ml/mol	McGowan Method
pc	2505.01	kPa	Joback Method
rinpol	1727.80		NIST Webbook
rinpol	1727.80		NIST Webbook
tb	608.40	K	Joback Method
tc	839.25	K	Joback Method
tf	308.00 ± 1.00	K	NIST Webbook
vc	0.677	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	459.00	J/mol×K	608.40	Joback Method
cpg	477.58	J/mol×K	646.87	Joback Method
cpg	494.77	J/mol×K	685.35	Joback Method
cpg	510.66	J/mol×K	723.82	Joback Method
cpg	525.33	J/mol×K	762.30	Joback Method
cpg	538.86	J/mol×K	800.77	Joback Method
cpg	551.35	J/mol×K	839.25	Joback Method

Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	436.70	K	0.80	NIST Webbook
tbrp	458.70	K	2.90	NIST Webbook
tbrp	459.10 ± 0.50	K	2.90	NIST Webbook

Sources

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=C92591&Units=SI
Crippen Method: http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method: https://www.chemeo.com/doc/models/crippen_log10ws

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
tb:	Normal Boiling Point Temperature
tbrp:	Boiling point at reduced pressure
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume