Ethanamine, 2-phenoxy-

Other names:	Ethylamine, 2-phenoxy- «alpha»-Phenoxy-«beta»-aminoethane Phenoxyethylamine 2-Phenoxyethylamine
Inchi:	InChI=1S/C8H11NO/c9-6-7-10-8-4-2-1-3-5-8/h1-5H,6-7,9H2
InchiKey:	IMLAIXAZMVDRGA-UHFFFAOYSA-N
Formula:	C8H11NO
SMILES:	NCCOc1ccccc1
Mol. weight [g/mol]:	137.18
CAS:	1758-46-9

Physical Properties

Property code	Value	Unit	Source
gf	90.34	kJ/mol	Joback Method
hf	-70.35	kJ/mol	Joback Method
hfus	16.90	kJ/mol	Joback Method
hvap	48.73	kJ/mol	Joback Method
log10ws	-1.44		Crippen Method
logp	1.024		Crippen Method
mcvol	115.670	ml/mol	McGowan Method
pc	3834.03	kPa	Joback Method
tb	504.07	K	Joback Method
tc	724.77	K	Joback Method
tf	311.83	K	Joback Method
vc	0.422	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	251.42	J/mol×K	504.07	Joback Method
cpg	264.13	J/mol×K	540.85	Joback Method
cpg	276.11	J/mol×K	577.64	Joback Method
cpg	287.39	J/mol×K	614.42	Joback Method
cpg	297.98	J/mol×K	651.20	Joback Method

cpg	307.91	J/mol×K	687.98	Joback Method
cpg	317.18	J/mol×K	724.77	Joback Method

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=C1758469&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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume