Ethanol, 2,2'-(butylimino)bis-

Other names:	Ethanol, 2,2'-(butylimino)di-
	Butylbis(2-hydroxyethyl)amine
	Butyldiethanolamine
	N-Butyl-N,N-bis(hydroxyethyl)amine
	N-Butyl-N,N-bis(2-hydroxyethyl)amine
	N-Butyl-2,2'-iminodiethanol
	N-Butyldiethanolamine
	N,N-Bis(2-hydroxyethyl)butylamine
	2,2'-(Butylimino)diethanol
	N-n-Butyldiethanolamine
	2,2'-(n-Butylimino)diethanol
	BIDE
	Bis(«beta»-hydroxyethyl)butylamine
	2-(N-Butyl-N-2-hydroxyethylamino)ethanol
	NSC 60214
Inchi:	InChI=1S/C8H19NO2/c1-2-3-4-9(5-7-10)6-8-11/h10-11H,2-8H2,1H3
InchiKey:	GVNHOISKXMSMPX-UHFFFAOYSA-N
Formula:	C8H19NO2
SMILES:	CCCCN(CCO)CCO
Mol. weight [g/mol]:	161.24
CAS:	102-79-4

Physical Properties

Property code	Value	Unit	Source
gf	-146.38	kJ/mol	Joback Method
hf	-445.38	kJ/mol	Joback Method
hfus	27.67	kJ/mol	Joback Method
hvap	68.80	kJ/mol	Joback Method
log10ws	-0.27		Crippen Method
logp	0.073		Crippen Method
mcvol	145.300	ml/mol	McGowan Method
pc	3072.75	kPa	Joback Method
tb	579.24	K	Joback Method
tc	735.48	K	Joback Method
tf	334.03	K	Joback Method
vc	0.539	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	380.29	J/mol×K	579.24	Joback Method
cpg	391.00	J/mol×K	605.28	Joback Method
cpg	401.27	J/mol×K	631.32	Joback Method
cpg	411.11	J/mol×K	657.36	Joback Method
cpg	420.53	J/mol×K	683.40	Joback Method
cpg	429.55	J/mol×K	709.44	Joback Method
cpg	438.18	J/mol×K	735.48	Joback Method

Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	547.20	K	98.80	NIST Webbook

Sources

McGowan Method: http://link.springer.com/article/10.1007/BF02311772
NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C102794&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

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