n-Hexyl-2,2'-iminodiethanol

Other names: 2,2'-(n-Hexylamino)diethanol
2,2'-(Hexylamino)diethanol
Inchi: InChI=1S/C10H23NO2/c1-2-3-4-5-6-11(7-9-12)8-10-13/h12-13H,2-10H2,1H3
InchiKey: GIACMWUKBLHAAG-UHFFFAOYSA-N
Formula: C10H23NO2
SMILES: CCCCCCN(CCO)CCO
Mol. weight [g/mol]: 189.30
CAS: 6752-33-6

Physical Properties

Property code	Value	Unit	Source
gf	-129.54	kJ/mol	Joback Method
hf	-486.66	kJ/mol	Joback Method
hfus	32.85	kJ/mol	Joback Method
hvap	73.25	kJ/mol	Joback Method
log10ws	-1.11		Crippen Method
logp	0.853		Crippen Method
mcvol	173.480	ml/mol	McGowan Method
pc	2510.03	kPa	Joback Method
tb	625.00	K	Joback Method
tc	782.17	K	Joback Method
tf	356.57	K	Joback Method
vc	0.651	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	479.06	J/mol×K	625.00	Joback Method
cpg	491.16	J/mol×K	651.19	Joback Method
cpg	502.75	J/mol×K	677.39	Joback Method
cpg	513.84	J/mol×K	703.58	Joback Method
cpg	524.47	J/mol×K	729.78	Joback Method
cpg	534.63	J/mol×K	755.97	Joback Method
cpg	544.36	J/mol×K	782.17	Joback Method

Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	427.50 ± 0.50	K	0.50	NIST Webbook

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C6752336&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