1,1'-[(2-hydroxyethyl)imino]dipropan-2-ol

Other names: Ethanol diisopropanol amine
Inchi: InChI=1S/C8H19NO3/c1-7(11)5-9(3-4-10)6-8(2)12/h7-8,10-12H,3-6H2,1-2H3
InchiKey: HHKUQCFQGCCLGA-UHFFFAOYSA-N
Formula: C8H19NO3
SMILES: CC(O)CN(CCO)CC(C)O
Mol. weight [g/mol]: 177.24
CAS: 10353-86-3

Physical Properties

Property code	Value	Unit	Source
gf	-288.08	kJ/mol	Joback Method
hf	-608.17	kJ/mol	Joback Method
hfus	24.71	kJ/mol	Joback Method
hvap	84.71	kJ/mol	Joback Method
log10ws	0.24		Crippen Method
logp	-0.958		Crippen Method
mcvol	151.170	ml/mol	McGowan Method
pc	3476.55	kPa	Joback Method
tb	670.54	K	Joback Method
tc	832.53	K	Joback Method
tf	364.85	K	Joback Method
vc	0.546	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	434.68	J/mol×K	670.54	Joback Method
cpg	444.44	J/mol×K	697.54	Joback Method
cpg	453.75	J/mol×K	724.54	Joback Method
cpg	462.63	J/mol×K	751.54	Joback Method
cpg	471.09	J/mol×K	778.54	Joback Method
cpg	479.16	J/mol×K	805.53	Joback Method
cpg	486.85	J/mol×K	832.53	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=C10353863&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