Ethanol, 2-(octylamino)-

Other names: 2-(octylamino)ethanol
Inchi: InChI=1S/C10H23NO/c1-2-3-4-5-6-7-8-11-9-10-12/h11-12H,2-10H2,1H3
InchiKey: UVYBWDBLVDZIOX-UHFFFAOYSA-N
Formula: C10H23NO
SMILES: CCCCCCCCNCCO
Mol. weight [g/mol]: 173.30
CAS: 32582-63-1

Physical Properties

Property code	Value	Unit	Source
gf	-14.11	kJ/mol	Joback Method
hf	-348.49	kJ/mol	Joback Method
hfus	30.84	kJ/mol	Joback Method
hvap	60.97	kJ/mol	Joback Method
log10ws	-2.46		Crippen Method
logp	1.929		Crippen Method
mcvol	167.610	ml/mol	McGowan Method
pc	2327.03	kPa	Joback Method
rinpol	1333.00		NIST Webbook
tb	570.55	K	Joback Method
tc	732.51	K	Joback Method
tf	315.94	K	Joback Method
vc	0.649	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	433.69	J/mol×K	570.55	Joback Method
cpg	447.06	J/mol×K	597.54	Joback Method
cpg	459.89	J/mol×K	624.54	Joback Method
cpg	472.19	J/mol×K	651.53	Joback Method
cpg	483.99	J/mol×K	678.52	Joback Method
cpg	495.29	J/mol×K	705.52	Joback Method
cpg	506.12	J/mol×K	732.51	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C32582631&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
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772

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
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume