3-(2-Ethylhexyloxy)-propylamine

Other names:	1-Propanamine, 3-[(2-ethylhexyl)oxy]-
	Propylamine, 3-(2-ethylhexoxy)-
	Propylamine, 3-((2-ethylhexyl)oxy)-
	2-Ethylhexyl 3-aminopropyl ether
	3-(2-Ethylhexoxy)propylamine
	NSC 1078
	3-(2-Ethylhexoxy)propan-1-amine
Inchi:	InChI=1S/C11H25NO/c1-3-5-7-11(4-2)10-13-9-6-8-12/h11H,3-10,12H2,1-2H3
InchiKey:	DVFGEIYOLIFSRX-UHFFFAOYSA-N
Formula:	C11H25NO
SMILES:	CCCCC(CC)COCCCN
Mol. weight [g/mol]:	187.32
CAS:	5397-31-9

Physical Properties

Property code	Value	Unit	Source
gf	0.75	kJ/mol	Joback Method
hf	-374.08	kJ/mol	Joback Method
hfus	27.11	kJ/mol	Joback Method
hvap	52.74	kJ/mol	Joback Method
log10ws	-2.71		Crippen Method
logp	2.568		Crippen Method
mcvol	181.700	ml/mol	McGowan Method
pc	2018.13	kPa	Joback Method
rinpol	1357.00		NIST Webbook
rinpol	1357.00		NIST Webbook
tb	545.59	K	Joback Method
tc	721.22	K	Joback Method
tf	304.22	K	Joback Method
vc	0.693	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source

cpg	458.32	J/mol×K	545.59	Joback Method
cpg	474.50	J/mol×K	574.86	Joback Method
cpg	490.03	J/mol×K	604.13	Joback Method
cpg	504.92	J/mol×K	633.40	Joback Method
cpg	519.18	J/mol×K	662.67	Joback Method
cpg	532.82	J/mol×K	691.94	Joback Method
cpg	545.86	J/mol×K	721.22	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C5397319&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