6-Tridecanol, 3,9-diethyl-

Other names: 3,9-Diethyl-6-hydroxytridecane
3,9-Diethyl-6-tridecanol
3,9-Diethyltridecanol-6
Inchi: InChI=1S/C17H36O/c1-5-9-10-16(8-4)12-14-17(18)13-11-15(6-2)7-3/h15-18H,5-14H2,1-
InchiKey: NWDHHLKROQOLMQ-UHFFFAOYSA-N
Formula: C17H36O
SMILES: CCCCC(CC)CCC(O)CCC(CC)CC
Mol. weight [g/mol]: 256.47
CAS: 123-24-0

Physical Properties

Property code	Value	Unit	Source
gf	-51.88	kJ/mol	Joback Method
hf	-562.28	kJ/mol	Joback Method
hfus	33.30	kJ/mol	Joback Method
hvap	68.95	kJ/mol	Joback Method
log10ws	-5.83		Crippen Method
logp	5.560		Crippen Method
mcvol	256.260	ml/mol	McGowan Method
pc	1337.84	kPa	Joback Method
tb	582.15	K	NIST Webbook
tc	844.95	K	Joback Method
tf	297.17	K	Joback Method
vc	0.989	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	750.73	J/mol×K	679.22	Joback Method
cpg	833.35	J/mol×K	817.33	Joback Method
cpg	818.31	J/mol×K	789.71	Joback Method
cpg	802.55	J/mol×K	762.09	Joback Method
cpg	786.05	J/mol×K	734.46	Joback Method
cpg	768.79	J/mol×K	706.84	Joback Method

cpg	847.71	J/mol×K	844.95	Joback Method
dvisc	0.0000274	Pa×s	679.22	Joback Method
dvisc	0.0000485	Pa×s	615.55	Joback Method
dvisc	0.0000978	Pa×s	551.87	Joback Method
dvisc	0.0002370	Pa×s	488.19	Joback Method
dvisc	0.0007487	Pa×s	424.52	Joback Method
dvisc	0.0035502	Pa×s	360.84	Joback Method
dvisc	0.0327970	Pa×s	297.17	Joback Method

Sources

McGowan Method: http://link.springer.com/article/10.1007/BF02311772
NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C123240&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
dvisc: Dynamic viscosity
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