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

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=C123240&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
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

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