2-pentadecanol, 6,10,14-trimethyl-

Inchi: InChI=1S/C18H38O/c1-15(2)9-6-10-16(3)11-7-12-17(4)13-8-14-18(5)19/h15-19H,6-14H2
InchiKey: HTUZNQGPJMIELO-UHFFFAOYSA-N
Formula: C18H38O
SMILES: CC(C)CCCC(C)CCCC(C)CCCC(C)O
Mol. weight [g/mol]: 270.49
CAS: 69729-17-5

Physical Properties

Property code	Value	Unit	Source
gf	-45.90	kJ/mol	Joback Method
hf	-588.20	kJ/mol	Joback Method
hfus	32.37	kJ/mol	Joback Method
hvap	70.79	kJ/mol	Joback Method
log10ws	-6.01		Crippen Method
logp	5.806		Crippen Method
mcvol	270.350	ml/mol	McGowan Method
pc	1255.70	kPa	Joback Method
tb	701.66	K	Joback Method
tc	870.16	K	Joback Method
tf	293.44	K	Joback Method
vc	1.038	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	809.26	J/mol×K	701.66	Joback Method
cpg	827.97	J/mol×K	729.74	Joback Method
cpg	845.83	J/mol×K	757.83	Joback Method
cpg	862.86	J/mol×K	785.91	Joback Method
cpg	879.11	J/mol×K	813.99	Joback Method
cpg	894.60	J/mol×K	842.07	Joback Method
cpg	909.35	J/mol×K	870.16	Joback Method
dvisc	0.0456276	Pa×s	293.44	Joback Method
dvisc	0.0037971	Pa×s	361.48	Joback Method

dvisc	0.0006946	Pa×s	429.51	Joback Method
dvisc	0.0002022	Pa×s	497.55	Joback Method
dvisc	0.0000792	Pa×s	565.59	Joback Method
dvisc	0.0000380	Pa×s	633.62	Joback Method
dvisc	0.0000210	Pa×s	701.66	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=C69729175&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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