8,14,18-trimethyloctatriacontane

Inchi: InChI=1S/C41H84/c1-6-8-10-12-13-14-15-16-17-18-19-20-21-22-23-24-26-29-34-40(4)37
InchiKey: QEKGEXLUFKHLEN-UHFFFAOYSA-N
Formula: C41H84
SMILES: CCCCCCCCCCCCCCCCCCCCC(C)CCCC(C)CCCCCC(C)CCCCCCC
Mol. weight [g/mol]: 577.11

Physical Properties

Property code	Value	Unit	Source
gf	287.02	kJ/mol	Joback Method
hf	-905.41	kJ/mol	Joback Method
hfus	91.38	kJ/mol	Joback Method
hvap	105.70	kJ/mol	Joback Method
log10ws	-16.26		Crippen Method
logp	15.808		Crippen Method
mcvol	588.550	ml/mol	McGowan Method
pc	379.98	kPa	Joback Method
rinpol	3874.00		NIST Webbook
tb	1136.16	K	Joback Method
tc	1517.43	K	Joback Method
tf	506.83	K	Joback Method
vc	2.313	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	2246.59	J/mol×K	1136.16	Joback Method
cpg	2290.12	J/mol×K	1199.71	Joback Method
cpg	2329.56	J/mol×K	1263.25	Joback Method
cpg	2365.64	J/mol×K	1326.80	Joback Method
cpg	2399.11	J/mol×K	1390.34	Joback Method
cpg	2430.68	J/mol×K	1453.89	Joback Method
cpg	2461.09	J/mol×K	1517.43	Joback Method
dvisc	0.0003383	Pa×s	506.83	Joback Method
dvisc	0.0000794	Pa×s	611.72	Joback Method

dvisc	0.0000285	Pa×s	716.61	Joback Method
dvisc	0.0000133	Pa×s	821.49	Joback Method
dvisc	0.0000074	Pa×s	926.38	Joback Method
dvisc	0.0000046	Pa×s	1031.27	Joback Method
dvisc	0.0000031	Pa×s	1136.16	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=R280683&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
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume