2,16-Dimethyltetatriacontane

Inchi: InChI=1S/C36H74/c1-5-6-7-8-9-10-11-12-13-14-15-18-21-24-27-30-33-36(4)34-31-28-25
InchiKey: PWSKCSRCTHBBCD-UHFFFAOYSA-N
Formula: C36H74
SMILES: CCCCCCCCCCCCCCCCCCC(C)CCCCCCCCCCCCCCC(C)C
Mol. weight [g/mol]: 506.97

Physical Properties

Property code	Value	Unit	Source
gf	247.36	kJ/mol	Joback Method
hf	-796.93	kJ/mol	Joback Method
hfus	81.95	kJ/mol	Joback Method
hvap	94.95	kJ/mol	Joback Method
log10ws	-14.41		Crippen Method
logp	14.001		Crippen Method
mcvol	518.100	ml/mol	McGowan Method
pc	460.89	kPa	Joback Method
rinpol	3497.00		NIST Webbook
rinpol	3497.00		NIST Webbook
tb	1022.20	K	Joback Method
tc	1299.46	K	Joback Method
tf	465.48	K	Joback Method
vc	2.039	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1895.15	J/mol×K	1022.20	Joback Method
cpg	1929.46	J/mol×K	1068.41	Joback Method
cpg	1961.17	J/mol×K	1114.62	Joback Method
cpg	1990.53	J/mol×K	1160.83	Joback Method
cpg	2017.80	J/mol×K	1207.04	Joback Method
cpg	2043.21	J/mol×K	1253.25	Joback Method
cpg	2067.02	J/mol×K	1299.46	Joback Method
dvisc	0.0006531	Pa×s	465.48	Joback Method

dvisc	0.0001696	Pa×s	558.27	Joback Method
dvisc	0.0000647	Pa×s	651.05	Joback Method
dvisc	0.0000314	Pa×s	743.84	Joback Method
dvisc	0.0000179	Pa×s	836.63	Joback Method
dvisc	0.0000114	Pa×s	929.41	Joback Method
dvisc	0.0000079	Pa×s	1022.20	Joback Method

Sources

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
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R337843&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

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