11-Methyltetratriacontane

Inchi: InChI=1S/C35H72/c1-4-6-8-10-12-14-15-16-17-18-19-20-21-22-23-24-25-26-28-30-32-34
InchiKey: VVIKPIJZNPIDJE-UHFFFAOYSA-N
Formula: C35H72
SMILES: CCCCCCCCCCCCCCCCCCCCCCCC(C)CCCCCCCCCC
Mol. weight [g/mol]: 492.95

Physical Properties

Property code	Value	Unit	Source
gf	241.38	kJ/mol	Joback Method
hf	-771.01	kJ/mol	Joback Method
hfus	82.88	kJ/mol	Joback Method
hvap	93.12	kJ/mol	Joback Method
log10ws	-14.23		Crippen Method
logp	13.755		Crippen Method
mcvol	504.010	ml/mol	McGowan Method
pc	478.81	kPa	Joback Method
rinpol	3426.00		NIST Webbook
rinpol	3432.00		NIST Webbook
rinpol	3432.00		NIST Webbook
rinpol	3423.00		NIST Webbook
rinpol	3426.00		NIST Webbook
tb	999.76	K	Joback Method
tc	1264.67	K	Joback Method
tf	469.21	K	Joback Method
vc	1.990	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1825.36	J/mol×K	999.76	Joback Method
cpg	1858.65	J/mol×K	1043.91	Joback Method
cpg	1889.54	J/mol×K	1088.06	Joback Method
cpg	1918.23	J/mol×K	1132.22	Joback Method
cpg	1944.94	J/mol×K	1176.37	Joback Method

cpg	1969.88	J/mol×K	1220.52	Joback Method
cpg	1993.26	J/mol×K	1264.67	Joback Method
dvisc	0.0006270	Pa×s	469.21	Joback Method
dvisc	0.0001830	Pa×s	557.63	Joback Method
dvisc	0.0000748	Pa×s	646.06	Joback Method
dvisc	0.0000379	Pa×s	734.48	Joback Method
dvisc	0.0000223	Pa×s	822.91	Joback Method
dvisc	0.0000145	Pa×s	911.34	Joback Method
dvisc	0.0000102	Pa×s	999.76	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R390537&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
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772

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