Pentatriacont-9-ene

Inchi: InChI=1S/C35H70/c1-3-5-7-9-11-13-15-17-19-21-23-25-27-29-31-33-35-34-32-30-28-26-
InchiKey: AQGWMPFCRUALJK-HTXNQAPBSA-N
Formula: C35H70
SMILES: CCCCCCCCC=CCCCCCCCCCCCCCCCCCCCCCCCCC
Mol. weight [g/mol]: 490.93

Physical Properties

Property code	Value	Unit	Source
gf	324.04	kJ/mol	Joback Method
hf	-648.51	kJ/mol	Joback Method
hfus	86.61	kJ/mol	Joback Method
hvap	93.46	kJ/mol	Joback Method
log10ws	-14.33		Crippen Method
logp	13.675		Crippen Method
mcvol	499.710	ml/mol	McGowan Method
pc	488.17	kPa	Joback Method
rinpol	3481.00		NIST Webbook
tb	1004.36	K	Joback Method
tc	1268.08	K	Joback Method
tf	479.13	K	Joback Method
vc	1.976	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1797.82	J/mol×K	1004.36	Joback Method
cpg	1830.70	J/mol×K	1048.31	Joback Method
cpg	1861.50	J/mol×K	1092.27	Joback Method
cpg	1890.44	J/mol×K	1136.22	Joback Method
cpg	1917.75	J/mol×K	1180.17	Joback Method
cpg	1943.67	J/mol×K	1224.13	Joback Method
cpg	1968.43	J/mol×K	1268.08	Joback Method
dvisc	0.0004905	Pa×s	479.13	Joback Method
dvisc	0.0001545	Pa×s	566.67	Joback Method

dvisc	0.0000663	Pa×s	654.21	Joback Method
dvisc	0.0000348	Pa×s	741.74	Joback Method
dvisc	0.0000209	Pa×s	829.28	Joback Method
dvisc	0.0000138	Pa×s	916.82	Joback Method
dvisc	0.0000098	Pa×s	1004.36	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=R418145&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