

4,8,12,16-Tetramethyltrtriacontane

Inchi: InChI=1S/C37H76/c1-7-9-10-11-12-13-14-15-16-17-18-19-20-21-22-27-35(4)29-24-31-37
InchiKey: WWPGDUNUVXPJNE-UHFFFAOYSA-N
Formula: C37H76
SMILES: CCCCCCCCCCCCCCCCC(C)CCCC(C)CCCC(C)CCCC(C)CCC
Mol. weight [g/mol]: 521.00

Physical Properties

Property code	Value	Unit	Source
gf	250.90	kJ/mol	Joback Method
hf	-828.13	kJ/mol	Joback Method
hfus	77.49	kJ/mol	Joback Method
hvap	96.40	kJ/mol	Joback Method
log10ws	-14.34		Crippen Method
logp	14.103		Crippen Method
mcvol	532.190	ml/mol	McGowan Method
pc	445.46	kPa	Joback Method
rinpol	3448.00		NIST Webbook
rinpol	3448.00		NIST Webbook
rinpol	3448.00		NIST Webbook
tb	1044.20	K	Joback Method
tc	1329.98	K	Joback Method
tf	446.75	K	Joback Method
vc	2.083	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1965.23	J/molxK	1044.20	Joback Method
cpg	1999.92	J/molxK	1091.83	Joback Method
cpg	2031.88	J/molxK	1139.46	Joback Method
cpg	2061.38	J/molxK	1187.09	Joback Method
cpg	2088.70	J/molxK	1234.72	Joback Method
cpg	2114.11	J/molxK	1282.35	Joback Method
cpg	2137.90	J/molxK	1329.98	Joback Method

dvisc	0.0008645	Paxs	446.75	Joback Method
dvisc	0.0001729	Paxs	546.32	Joback Method
dvisc	0.0000568	Paxs	645.90	Joback Method
dvisc	0.0000251	Paxs	745.47	Joback Method
dvisc	0.0000135	Paxs	845.05	Joback Method
dvisc	0.0000082	Paxs	944.62	Joback Method
dvisc	0.0000055	Paxs	1044.20	Joback Method

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
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=R505432&Units=SI

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

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