

4,8-dimethyl-tetratriacontane

Inchi:	InChI=1S/C36H74/c1-5-7-8-9-10-11-12-13-14-15-16-17-18-19-20-21-22-23-24-25-26-27
InchiKey:	XGRFFOSLPILRMP-UHFFFAOYSA-N
Formula:	C36H74
SMILES:	CCCCCCCCCCCCCCCCCCCCCCCCCCCC(C)CCCC(C)CCC
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	3493.00		NIST Webbook
rinpol	3490.00		NIST Webbook
rinpol	3490.00		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/molxK	1022.20	Joback Method
cpg	1929.46	J/molxK	1068.41	Joback Method
cpg	1961.17	J/molxK	1114.62	Joback Method
cpg	1990.53	J/molxK	1160.83	Joback Method
cpg	2017.80	J/molxK	1207.04	Joback Method
cpg	2043.21	J/molxK	1253.25	Joback Method
cpg	2067.02	J/molxK	1299.46	Joback Method

dvisc	0.0006531	Paxs	465.48	Joback Method
dvisc	0.0001696	Paxs	558.27	Joback Method
dvisc	0.0000647	Paxs	651.05	Joback Method
dvisc	0.0000314	Paxs	743.84	Joback Method
dvisc	0.0000179	Paxs	836.63	Joback Method
dvisc	0.0000114	Paxs	929.41	Joback Method
dvisc	0.0000079	Paxs	1022.20	Joback Method

Sources

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
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R272523&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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