

5,9,15,19-tetramethylnonacosane

Inchi:	InChI=1S/C33H68/c1-7-9-11-12-13-14-15-17-23-31(4)28-21-29-33(6)25-19-16-18-24-32
InchiKey:	YUASEIVEYZDFET-UHFFFAOYSA-N
Formula:	C33H68
SMILES:	CCCCCCCCCCC(C)CCCC(C)CCCC(C)CCCC(C)CCCC
Mol. weight [g/mol]:	464.89

Physical Properties

Property code	Value	Unit	Source
gf	217.22	kJ/mol	Joback Method
hf	-745.57	kJ/mol	Joback Method
hfus	67.13	kJ/mol	Joback Method
hvap	87.50	kJ/mol	Joback Method
log10ws	-12.67		Crippen Method
logp	12.543		Crippen Method
mcvol	475.830	ml/mol	McGowan Method
pc	527.50	kPa	Joback Method
rinpol	3040.00		NIST Webbook
tb	952.68	K	Joback Method
tc	1181.52	K	Joback Method
tf	401.67	K	Joback Method
vc	1.859	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1687.83	J/molxK	952.68	Joback Method
cpg	1717.20	J/molxK	990.82	Joback Method
cpg	1744.67	J/molxK	1028.96	Joback Method
cpg	1770.35	J/molxK	1067.10	Joback Method
cpg	1794.37	J/molxK	1105.24	Joback Method
cpg	1816.87	J/molxK	1143.38	Joback Method
cpg	1837.96	J/molxK	1181.52	Joback Method
dvisc	0.0018040	Paxs	401.67	Joback Method
dvisc	0.0003453	Paxs	493.50	Joback Method

dvisc	0.0001110	Paxs	585.34	Joback Method
dvisc	0.0000486	Paxs	677.17	Joback Method
dvisc	0.0000259	Paxs	769.01	Joback Method
dvisc	0.0000158	Paxs	860.85	Joback Method
dvisc	0.0000106	Paxs	952.68	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R280336&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

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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