Dotriacontane, 11-methyl

Other names: 11-Methyldotriacontane
Inchi: InChI=1S/C33H68/c1-4-6-8-10-12-14-15-16-17-18-19-20-21-22-23-24-26-28-30-32-33(3)
InchiKey: YENDKDTUPLAVGD-UHFFFAOYSA-N
Formula: C33H68
SMILES: CCCCCCCCCCCCCCCCCCCCCC(C)CCCCCCCCCC
Mol. weight [g/mol]: 464.89

Physical Properties

Property code	Value	Unit	Source
gf	224.54	kJ/mol	Joback Method
hf	-729.73	kJ/mol	Joback Method
hfus	77.70	kJ/mol	Joback Method
hvap	88.66	kJ/mol	Joback Method
log10ws	-13.39		Crippen Method
logp	12.975		Crippen Method
mcvol	475.830	ml/mol	McGowan Method
pc	521.73	kPa	Joback Method
rinpol	3238.00		NIST Webbook
rinpol	3230.00		NIST Webbook
rinpol	3228.00		NIST Webbook
tb	954.00	K	Joback Method
tc	1190.48	K	Joback Method
tf	446.67	K	Joback Method
vc	1.877	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1687.02	J/mol×K	954.00	Joback Method
cpg	1717.48	J/mol×K	993.41	Joback Method
cpg	1745.95	J/mol×K	1032.83	Joback Method
cpg	1772.57	J/mol×K	1072.24	Joback Method
cpg	1797.49	J/mol×K	1111.65	Joback Method
cpg	1820.84	J/mol×K	1151.07	Joback Method

cpg	1842.77	J/mol×K	1190.48	Joback Method
dvisc	0.0008545	Pa×s	446.67	Joback Method
dvisc	0.0002494	Pa×s	531.22	Joback Method
dvisc	0.0001021	Pa×s	615.78	Joback Method
dvisc	0.0000519	Pa×s	700.34	Joback Method
dvisc	0.0000305	Pa×s	784.89	Joback Method
dvisc	0.0000199	Pa×s	869.44	Joback Method
dvisc	0.0000140	Pa×s	954.00	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R528148&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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