

9-methyl-triacontane

Inchi: InChI=1S/C31H64/c1-4-6-8-10-12-13-14-15-16-17-18-19-20-21-22-23-24-26-28-30-31(3)
InchiKey: MXKLTXBVJPPEJG-UHFFFAOYSA-N
Formula: C31H64
SMILES: CCCCCCCCCCCCCCCCCCCCCC(C)CCCCCCCC
Mol. weight [g/mol]: 436.84

Physical Properties

Property code	Value	Unit	Source
gf	207.70	kJ/mol	Joback Method
hf	-688.45	kJ/mol	Joback Method
hfus	72.52	kJ/mol	Joback Method
hvap	84.21	kJ/mol	Joback Method
log10ws	-12.56		Crippen Method
logp	12.195		Crippen Method
mcvol	447.650	ml/mol	McGowan Method
pc	570.69	kPa	Joback Method
rinpol	3034.00		NIST Webbook
rinpol	3032.00		NIST Webbook
rinpol	3032.00		NIST Webbook
tb	908.24	K	Joback Method
tc	1122.22	K	Joback Method
tf	424.13	K	Joback Method
vc	1.766	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1550.16	J/molxK	908.24	Joback Method
cpg	1578.28	J/molxK	943.90	Joback Method
cpg	1604.74	J/molxK	979.57	Joback Method
cpg	1629.63	J/molxK	1015.23	Joback Method
cpg	1653.05	J/molxK	1050.89	Joback Method
cpg	1675.10	J/molxK	1086.56	Joback Method
cpg	1695.88	J/molxK	1122.22	Joback Method

dvisc	0.0011568	Paxs	424.13	Joback Method
dvisc	0.0003377	Paxs	504.81	Joback Method
dvisc	0.0001384	Paxs	585.50	Joback Method
dvisc	0.0000704	Paxs	666.18	Joback Method
dvisc	0.0000415	Paxs	746.87	Joback Method
dvisc	0.0000271	Paxs	827.56	Joback Method
dvisc	0.0000191	Paxs	908.24	Joback Method

Sources

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=R494981&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

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
mvol:	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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