

13,16-Dimethyloctacosane

Inchi: InChI=1S/C30H62/c1-5-7-9-11-13-15-17-19-21-23-25-29(3)27-28-30(4)26-24-22-20-18-16
InchiKey: QVTCWOHFZGEDMJ-UHFFFAOYSA-N
Formula: C30H62
SMILES: CCCCCCCCCCCCC(C)CCC(C)CCCCCCCCCCCCC
Mol. weight [g/mol]: 422.81

Physical Properties

Property code	Value	Unit	Source
gf	196.84	kJ/mol	Joback Method
hf	-673.09	kJ/mol	Joback Method
hfus	66.41	kJ/mol	Joback Method
hvap	81.60	kJ/mol	Joback Method
log10ws	-11.90		Crippen Method
logp	11.661		Crippen Method
mcvol	433.560	ml/mol	McGowan Method
pc	600.14	kPa	Joback Method
rinpol	2912.00		NIST Webbook
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tb	884.92	K	Joback Method
tc	1088.23	K	Joback Method
tf	397.86	K	Joback Method
vc	1.704	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1482.72	J/mol×K	884.92	Joback Method
cpg	1602.94	J/mol×K	1054.35	Joback Method
cpg	1581.62	J/mol×K	1020.46	Joback Method
cpg	1559.02	J/mol×K	986.58	Joback Method
cpg	1535.06	J/mol×K	952.69	Joback Method
cpg	1509.65	J/mol×K	918.81	Joback Method
cpg	1623.05	J/mol×K	1088.23	Joback Method
dvisc	0.0000203	Pa×s	884.92	Joback Method

dvisc	0.0000293	Pa×s	803.74	Joback Method
dvisc	0.0000459	Pa×s	722.57	Joback Method
dvisc	0.0000805	Pa×s	641.39	Joback Method
dvisc	0.0001663	Pa×s	560.21	Joback Method
dvisc	0.0004393	Pa×s	479.04	Joback Method
dvisc	0.0017248	Pa×s	397.86	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=R501178&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
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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