3,9,13,19-tetramethylheptatriacontane

Inchi: InChI=1S/C41H84/c1-7-9-10-11-12-13-14-15-16-17-18-19-20-21-22-25-32-39(4)33-28-24
InchiKey: MFPVQZOEQAFAOP-UHFFFAOYSA-N
Formula: C41H84
SMILES: CCCCCCCCCCCCCCCCCCC(C)CCCCCC(C)CCCC(C)CCCCCC(C)CC
Mol. weight [g/mol]: 577.11

Physical Properties

Property code	Value	Unit	Source
gf	284.58	kJ/mol	Joback Method
hf	-910.69	kJ/mol	Joback Method
hfus	87.85	kJ/mol	Joback Method
hvap	105.31	kJ/mol	Joback Method
log10ws	-16.02		Crippen Method
logp	15.664		Crippen Method
mcvol	588.550	ml/mol	McGowan Method
pc	381.17	kPa	Joback Method
rinpol	3865.00		NIST Webbook
rinpol	3865.00		NIST Webbook
tb	1135.72	K	Joback Method
tc	1509.28	K	Joback Method
tf	491.83	K	Joback Method
vc	2.308	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	2246.46	J/mol×K	1135.72	Joback Method
cpg	2426.00	J/mol×K	1447.02	Joback Method
cpg	2395.30	J/mol×K	1384.76	Joback Method
cpg	2362.69	J/mol×K	1322.50	Joback Method
cpg	2327.47	J/mol×K	1260.24	Joback Method
cpg	2288.95	J/mol×K	1197.98	Joback Method
cpg	2455.47	J/mol×K	1509.28	Joback Method
dvisc	0.0000028	Pa×s	1135.72	Joback Method

dvisc	0.0000042	Pa×s	1028.40	Joback Method
dvisc	0.0000069	Pa×s	921.09	Joback Method
dvisc	0.0000128	Pa×s	813.78	Joback Method
dvisc	0.0000286	Pa×s	706.46	Joback Method
dvisc	0.0000857	Pa×s	599.14	Joback Method
dvisc	0.0004135	Pa×s	491.83	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=R280178&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