

3,7,11,15,18-Pentamethyltriacontane

Inchi:	InChI=1S/C35H72/c1-8-10-11-12-13-14-15-16-17-18-22-34(6)29-30-35(7)28-21-27-33(5)
InchiKey:	SEBDCFHTWZYJFE-UHFFFAOYSA-N
Formula:	C35H72
SMILES:	CCCCCCCCCCCC(C)CCC(C)CCCC(C)CCCC(C)CCCC(C)CC
Mol. weight [g/mol]:	492.95

Physical Properties

Property code	Value	Unit	Source
gf	231.62	kJ/mol	Joback Method
hf	-792.13	kJ/mol	Joback Method
hfus	68.79	kJ/mol	Joback Method
hvap	91.56	kJ/mol	Joback Method
log10ws	-13.26		Crippen Method
logp	13.179		Crippen Method
mvol	504.010	ml/mol	McGowan Method
pc	485.59	kPa	Joback Method
rinpol	3187.00		NIST Webbook
tb	998.00	K	Joback Method
tc	1248.84	K	Joback Method
tf	409.21	K	Joback Method
vc	1.966	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1826.15	J/molxK	998.00	Joback Method
cpg	1962.13	J/molxK	1207.03	Joback Method
cpg	1938.70	J/molxK	1165.22	Joback Method
cpg	1913.56	J/molxK	1123.42	Joback Method
cpg	1886.54	J/molxK	1081.61	Joback Method
cpg	1857.47	J/molxK	1039.81	Joback Method
cpg	1984.03	J/molxK	1248.84	Joback Method
dvisc	0.0000070	Paxs	998.00	Joback Method
dvisc	0.0000106	Paxs	899.87	Joback Method

dvisc	0.0000177	Paxs	801.74	Joback Method
dvisc	0.0000342	Paxs	703.61	Joback Method
dvisc	0.0000820	Paxs	605.47	Joback Method
dvisc	0.0002757	Paxs	507.34	Joback Method
dvisc	0.0016578	Paxs	409.21	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R501198&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Joback Method:	https://en.wikipedia.org/wiki/Joback_method
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772

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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