

16-methyl-hexatriacontane

Inchi:	InChI=1S/C37H76/c1-4-6-8-10-12-14-16-18-19-20-21-22-24-26-28-30-32-34-36-37(3)35-
InchiKey:	HSBTWDMPAVWXCJ-UHFFFAOYSA-N
Formula:	C37H76
SMILES:	CCCCCCCCCCCCCCCCCCCC(C)CCCCCCCCCCCCCCC
Mol. weight [g/mol]:	521.00

Physical Properties

Property code	Value	Unit	Source
gf	258.22	kJ/mol	Joback Method
hf	-812.29	kJ/mol	Joback Method
hfus	88.06	kJ/mol	Joback Method
hvap	97.57	kJ/mol	Joback Method
log10ws	-15.07		Crippen Method
logp	14.536		Crippen Method
mcvol	532.190	ml/mol	McGowan Method
pc	440.98	kPa	Joback Method
rinpol	3635.00		NIST Webbook
rinpol	3635.00		NIST Webbook
tb	1045.52	K	Joback Method
tc	1345.85	K	Joback Method
tf	491.75	K	Joback Method
vc	2.102	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1964.92	J/molxK	1045.52	Joback Method
cpg	2001.61	J/molxK	1095.58	Joback Method
cpg	2035.39	J/molxK	1145.63	Joback Method
cpg	2066.56	J/molxK	1195.69	Joback Method
cpg	2095.46	J/molxK	1245.74	Joback Method
cpg	2122.39	J/molxK	1295.80	Joback Method
cpg	2147.70	J/molxK	1345.85	Joback Method
dvisc	0.0004573	Paxs	491.75	Joback Method

dvisc	0.0001335	Paxs	584.04	Joback Method
dvisc	0.0000545	Paxs	676.34	Joback Method
dvisc	0.0000276	Paxs	768.63	Joback Method
dvisc	0.0000162	Paxs	860.93	Joback Method
dvisc	0.0000105	Paxs	953.22	Joback Method
dvisc	0.0000074	Paxs	1045.52	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R300222&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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