

Tetratriacontane, 4,16-dimethyl

Inchi: InChI=1S/C35H72/c1-5-7-8-9-10-11-12-13-14-15-16-18-22-25-28-32-35(4)33-29-26-23-2
InchiKey: HOIDHCXWIRIUSQ-UHFFFAOYSA-N
Formula: C35H72
SMILES: CCCCCCCCCCCCCCCCCC(C)CCCCCCCCCCCC(C)CCC
Mol. weight [g/mol]: 492.95

Physical Properties

Property code	Value	Unit	Source
gf	238.94	kJ/mol	Joback Method
hf	-776.29	kJ/mol	Joback Method
hfus	79.36	kJ/mol	Joback Method
hvap	92.73	kJ/mol	Joback Method
log10ws	-13.99		Crippen Method
logp	13.611		Crippen Method
mvol	504.010	ml/mol	McGowan Method
pc	480.50	kPa	Joback Method
rinpol	3489.00		NIST Webbook
rinpol	3489.00		NIST Webbook
tb	999.32	K	Joback Method
tc	1260.43	K	Joback Method
tf	454.21	K	Joback Method
vc	1.984	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1825.56	J/molxK	999.32	Joback Method
cpg	1858.31	J/molxK	1042.84	Joback Method
cpg	1888.72	J/molxK	1086.36	Joback Method
cpg	1916.96	J/molxK	1129.87	Joback Method
cpg	1943.25	J/molxK	1173.39	Joback Method
cpg	1967.79	J/molxK	1216.91	Joback Method
cpg	1990.77	J/molxK	1260.43	Joback Method
dvisc	0.0007702	Paxs	454.21	Joback Method

dvisc	0.0001994	Paxs	545.06	Joback Method
dvisc	0.0000760	Paxs	635.91	Joback Method
dvisc	0.0000368	Paxs	726.76	Joback Method
dvisc	0.0000210	Paxs	817.62	Joback Method
dvisc	0.0000134	Paxs	908.47	Joback Method
dvisc	0.0000093	Paxs	999.32	Joback Method

Sources

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
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R555556&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071

Legend

cp_g:	Ideal gas heat capacity
dvisc:	Dynamic viscosity
g_f:	Standard Gibbs free energy of formation
h_f:	Enthalpy of formation at standard conditions
h_{fus}:	Enthalpy of fusion at standard conditions
h_{vap}:	Enthalpy of vaporization at standard conditions
log₁₀w_s:	Log ₁₀ of Water solubility in mol/l
log_p:	Octanol/Water partition coefficient
mc_{vol}:	McGowan's characteristic volume
pc:	Critical Pressure
rin_{pol}:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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