

Tetratriacontane, 17-hexadecyl-

Other names:	17-n-Hexadecyltetratriacontane
Inchi:	InChI=1S/C50H102/c1-4-7-10-13-16-19-22-25-28-31-34-37-40-43-46-49-50(47-44-41-38
InchiKey:	DAQUEPISOMDKQG-UHFFFAOYSA-N
Formula:	C50H102
SMILES:	CCCCCCCCCCCCCCCCCCCC(CCCCCCCCCCCCCCCCCC)CCCCCCCCCCCCCCCC
Mol. weight [g/mol]:	703.34
CAS:	55256-07-0

Physical Properties

Property code	Value	Unit	Source
gf	367.68	kJ/mol	Joback Method
hf	-1080.61	kJ/mol	Joback Method
hfus	121.73	kJ/mol	Joback Method
hvap	126.51	kJ/mol	Joback Method
log10ws	-20.51		Crippen Method
logp	19.607		Crippen Method
mcvol	715.360	ml/mol	McGowan Method
pc	276.85	kPa	Joback Method
tb	1342.96	K	Joback Method
tc	2172.21	K	Joback Method
tf	317.00 ± 2.00	K	NIST Webbook
vc	2.829	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	2892.24	J/mol×K	1342.96	Joback Method
cpg	2979.08	J/mol×K	1481.17	Joback Method
cpg	3061.80	J/mol×K	1619.38	Joback Method
cpg	3149.66	J/mol×K	1757.58	Joback Method
cpg	3251.88	J/mol×K	1895.79	Joback Method
cpg	3377.72	J/mol×K	2034.00	Joback Method
cpg	3536.41	J/mol×K	2172.21	Joback Method
dvisc	0.0000528	Pa×s	638.26	Joback Method

dvisc	0.0000154	Pa×s	755.71	Joback Method
dvisc	0.0000063	Pa×s	873.16	Joback Method
dvisc	0.0000032	Pa×s	990.61	Joback Method
dvisc	0.0000018	Pa×s	1108.06	Joback Method
dvisc	0.0000012	Pa×s	1225.51	Joback Method
dvisc	0.0000008	Pa×s	1342.96	Joback Method

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
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=C55256070&Units=SI

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
mccvol:	McGowan's characteristic volume
pc:	Critical Pressure
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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