

2,10,14,18-Tetramethyltetratriacontane

Inchi: InChI=1S/C38H78/c1-7-8-9-10-11-12-13-14-15-16-17-18-21-24-29-36(4)31-26-33-38(6)3
InchiKey: YQASFENYGPKWTD-UHFFFAOYSA-N
Formula: C38H78
SMILES: CCCCCCCCCCCCCCCCC(C)CCCC(C)CCCC(C)CCCCCCCC(C)C
Mol. weight [g/mol]: 535.03

Physical Properties

Property code	Value	Unit	Source
gf	259.32	kJ/mol	Joback Method
hf	-848.77	kJ/mol	Joback Method
hfus	80.08	kJ/mol	Joback Method
hvap	98.63	kJ/mol	Joback Method
log10ws	-14.76		Crippen Method
logp	14.493		Crippen Method
mvol	546.280	ml/mol	McGowan Method
pc	427.94	kPa	Joback Method
rinpol	3445.00		NIST Webbook
rinpol	3445.00		NIST Webbook
tb	1067.08	K	Joback Method
tc	1371.50	K	Joback Method
tf	458.02	K	Joback Method
vc	2.139	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	2035.23	J/molxK	1067.08	Joback Method
cpg	2071.61	J/molxK	1117.82	Joback Method
cpg	2104.98	J/molxK	1168.55	Joback Method
cpg	2135.69	J/molxK	1219.29	Joback Method
cpg	2164.08	J/molxK	1270.03	Joback Method
cpg	2190.49	J/molxK	1320.77	Joback Method
cpg	2215.28	J/molxK	1371.50	Joback Method
dvisc	0.0007191	Paxs	458.02	Joback Method

dvisc	0.0001452	Paxs	559.53	Joback Method
dvisc	0.0000479	Paxs	661.04	Joback Method
dvisc	0.0000212	Paxs	762.55	Joback Method
dvisc	0.0000114	Paxs	864.06	Joback Method
dvisc	0.0000070	Paxs	965.57	Joback Method
dvisc	0.0000047	Paxs	1067.08	Joback Method

Sources

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
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R337670&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
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

Latest version available from:

<https://www.chemeo.com/cid/24-121-0/2-10-14-18-Tetramethyltetratriacontane.pdf>

Generated by Cheméo on 2024-05-01 19:38:20.009989343 +0000 UTC m=+16881548.930566716.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.