

9-Octacosene

Inchi:	InChI=1S/C28H56/c1-3-5-7-9-11-13-15-17-19-21-23-25-27-28-26-24-22-20-18-16-14-12
InchiKey:	STSINLFELKOJNV-HTXNQAPBSA-N
Formula:	C28H56
SMILES:	CCCCCCCC=CCCCCCCCCCCCCCCCCCC
Mol. weight [g/mol]:	392.74

Physical Properties

Property code	Value	Unit	Source
gf	265.10	kJ/mol	Joback Method
hf	-504.03	kJ/mol	Joback Method
hfus	68.48	kJ/mol	Joback Method
hvap	77.88	kJ/mol	Joback Method
log10ws	-11.40		Crippen Method
logp	10.945		Crippen Method
mcvol	401.080	ml/mol	McGowan Method
pc	673.25	kPa	Joback Method
rinpol	2770.56		NIST Webbook
tb	844.20	K	Joback Method
tc	1034.34	K	Joback Method
tf	400.24	K	Joback Method
vc	1.583	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1322.89	J/molxK	844.20	Joback Method
cpg	1347.62	J/molxK	875.89	Joback Method
cpg	1371.12	J/molxK	907.58	Joback Method
cpg	1393.46	J/molxK	939.27	Joback Method
cpg	1414.71	J/molxK	970.96	Joback Method
cpg	1434.95	J/molxK	1002.65	Joback Method
cpg	1454.23	J/molxK	1034.34	Joback Method
dvisc	0.0013290	Paxs	400.24	Joback Method
dvisc	0.0004252	Paxs	474.23	Joback Method

dvisc	0.0001851	Paxs	548.23	Joback Method
dvisc	0.0000982	Paxs	622.22	Joback Method
dvisc	0.0000596	Paxs	696.21	Joback Method
dvisc	0.0000398	Paxs	770.21	Joback Method
dvisc	0.0000285	Paxs	844.20	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=R282134&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

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
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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