

16-Nonatricosene, 27-methyl

Inchi:	InChI=1S/C40H80/c1-4-6-8-10-12-14-16-17-18-19-20-21-22-23-24-25-26-27-28-29-31-33
InchiKey:	ZCANRQAGEKVESN-OCOZRVBESA-N
Formula:	C40H80
SMILES:	CCCCCCCCCCCCCCCC=CCCCCCCCCCC(C)CCCCCCCCCCCC
Mol. weight [g/mol]:	561.06

Physical Properties

Property code	Value	Unit	Source
gf	363.70	kJ/mol	Joback Method
hf	-756.99	kJ/mol	Joback Method
hfus	96.04	kJ/mol	Joback Method
hvap	104.20	kJ/mol	Joback Method
log10ws	-16.18		Crippen Method
logp	15.482		Crippen Method
mcvol	570.160	ml/mol	McGowan Method
pc	400.32	kPa	Joback Method
rinsol	3902.00		NIST Webbook
tb	1118.32	K	Joback Method
tc	1477.35	K	Joback Method
tf	520.48	K	Joback Method
vc	2.249	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	2148.80	J/molxK	1118.32	Joback Method
cpg	2191.40	J/molxK	1178.16	Joback Method
cpg	2230.91	J/molxK	1238.00	Joback Method
cpg	2268.00	J/molxK	1297.83	Joback Method
cpg	2303.33	J/molxK	1357.67	Joback Method
cpg	2337.54	J/molxK	1417.51	Joback Method
cpg	2371.30	J/molxK	1477.35	Joback Method
dvisc	0.0002659	Paxs	520.48	Joback Method
dvisc	0.0000752	Paxs	620.12	Joback Method

dvisc	0.0000302	Paxs	719.76	Joback Method
dvisc	0.0000151	Paxs	819.40	Joback Method
dvisc	0.0000088	Paxs	919.04	Joback Method
dvisc	0.0000057	Paxs	1018.68	Joback Method
dvisc	0.0000040	Paxs	1118.32	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R608561&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

Latest version available from:

<https://www.chemeo.com/cid/76-327-5/16-Nonatricosene-27-methyl.pdf>

Generated by Cheméo on 2024-04-26 17:16:39.510406253 +0000 UTC m=+16441048.430983565.

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