

Nonapropylene glycol, monoallyl ether, acetate

Inchi:	InChI=1S/C32H62O11/c1-12-13-34-14-23(2)35-15-24(3)36-16-25(4)37-17-26(5)38-18-27
InchiKey:	ICMRTKCPDMQLOQ-UHFFFAOYSA-N
Formula:	C32H62O11
SMILES:	C=CCOCC(C)OCC(C)OCC(C)OCC(C)OCC(C)OCC(C)OCC(C)OCC(C)OCC(C)OC(C)=O
Mol. weight [g/mol]:	622.83

Physical Properties

Property code	Value	Unit	Source
gf	-894.48	kJ/mol	Joback Method
hf	-2060.68	kJ/mol	Joback Method
hfus	59.13	kJ/mol	Joback Method
hvap	113.51	kJ/mol	Joback Method
log10ws	-4.73		Crippen Method
logp	4.381		Crippen Method
mcvol	517.710	ml/mol	McGowan Method
pc	545.13	kPa	Joback Method
rinpol	3200.00		NIST Webbook
rinpol	3199.00		NIST Webbook
rinpol	3203.00		NIST Webbook
rinpol	3200.00		NIST Webbook
rinpol	3200.00		NIST Webbook
rinpol	3197.00		NIST Webbook
rinpol	3204.00		NIST Webbook
rinpol	3200.00		NIST Webbook
rinpol	3198.00		NIST Webbook
rinpol	3200.00		NIST Webbook
rinpol	3204.00		NIST Webbook
rinpol	3202.00		NIST Webbook
tb	1202.35	K	Joback Method
tc	1569.55	K	Joback Method
tf	585.87	K	Joback Method
vc	1.940	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1895.64	J/molxK	1202.35	Joback Method
cpg	1898.25	J/molxK	1263.55	Joback Method
cpg	1891.12	J/molxK	1324.75	Joback Method
cpg	1874.00	J/molxK	1385.95	Joback Method
cpg	1846.64	J/molxK	1447.15	Joback Method
cpg	1808.82	J/molxK	1508.35	Joback Method
cpg	1760.28	J/molxK	1569.55	Joback Method
dvisc	0.0000247	Paxs	585.87	Joback Method
dvisc	0.0000068	Paxs	688.62	Joback Method
dvisc	0.0000026	Paxs	791.36	Joback Method
dvisc	0.0000013	Paxs	894.11	Joback Method
dvisc	0.0000007	Paxs	996.86	Joback Method
dvisc	0.0000004	Paxs	1099.60	Joback Method
dvisc	0.0000003	Paxs	1202.35	Joback Method

Sources

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=R152182&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

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

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