

Nonapropylene glycol, diacetate

Inchi:

InchiKey:

Formula:

SMILES:

Mol. weight [g/mol]:

InChI=1S/C31H60O12/c1-21(35-14-23(3)37-16-25(5)39-18-27(7)41-20-29(9)43-31(11)33

CZRPPDQZLXOFSZ-UHFFFAOYSA-N

C31H60O12

CC(=O)OCC(C)OCC(C)OCC(C)OCC(C)OCC(C)OCC(C)OCC(C)OCC(C)OCC(C)OC(C)=

624.80

Physical Properties

Property code	Value	Unit	Source
gf	-1119.66	kJ/mol	Joback Method
hf	-2278.05	kJ/mol	Joback Method
hfus	59.42	kJ/mol	Joback Method
hvap	118.70	kJ/mol	Joback Method
log10ws	-4.23		Crippen Method
logp	3.742		Crippen Method
mcvol	509.490	ml/mol	McGowan Method
pc	576.18	kPa	Joback Method
rinpol	3196.00		NIST Webbook
rinpol	3196.00		NIST Webbook
rinpol	3192.00		NIST Webbook
rinpol	3198.00		NIST Webbook
rinpol	3195.00		NIST Webbook
rinpol	3195.00		NIST Webbook
rinpol	3194.00		NIST Webbook
rinpol	3192.00		NIST Webbook
rinpol	3194.00		NIST Webbook
rinpol	3196.00		NIST Webbook
rinpol	3195.00		NIST Webbook
rinpol	3194.00		NIST Webbook
rinpol	3194.00		NIST Webbook
rinpol	3194.00		NIST Webbook
tb	1236.66	K	Joback Method
tc	1623.11	K	Joback Method
tf	626.29	K	Joback Method
vc	1.909	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1856.50	J/molxK	1236.66	Joback Method
cpg	1850.39	J/molxK	1301.07	Joback Method
cpg	1832.88	J/molxK	1365.48	Joback Method
cpg	1803.61	J/molxK	1429.88	Joback Method
cpg	1762.26	J/molxK	1494.29	Joback Method
cpg	1708.47	J/molxK	1558.70	Joback Method
cpg	1641.92	J/molxK	1623.11	Joback Method
dvisc	0.0000183	Paxs	626.29	Joback Method
dvisc	0.0000056	Paxs	728.02	Joback Method
dvisc	0.0000023	Paxs	829.75	Joback Method
dvisc	0.0000012	Paxs	931.48	Joback Method
dvisc	0.0000007	Paxs	1033.20	Joback Method
dvisc	0.0000004	Paxs	1134.93	Joback Method
dvisc	0.0000003	Paxs	1236.66	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=R152177&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

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