

Tetraethylene glycol, monoallyl ether, acetate

Inchi: InChI=1S/C13H24O6/c1-3-4-15-5-6-16-7-8-17-9-10-18-11-12-19-13(2)14/h3H,1,4-12H2,
InchiKey: VDTCQMRHLAJIRL-UHFFFAOYSA-N
Formula: C13H24O6
SMILES: C=CCOCCOCCOCCOCCOC(C)=O
Mol. weight [g/mol]: 276.33

Physical Properties

Property code	Value	Unit	Source
gf	-507.50	kJ/mol	Joback Method
hf	-959.90	kJ/mol	Joback Method
hfus	35.68	kJ/mol	Joback Method
hvap	62.66	kJ/mol	Joback Method
log10ws	-0.33		Crippen Method
logp	0.802		Crippen Method
mcvol	220.650	ml/mol	McGowan Method
pc	1671.43	kPa	Joback Method
rinpol	1803.00		NIST Webbook
rinpol	1799.00		NIST Webbook
rinpol	1804.00		NIST Webbook
rinpol	1805.00		NIST Webbook
rinpol	1803.00		NIST Webbook
rinpol	1805.00		NIST Webbook
rinpol	1800.00		NIST Webbook
rinpol	1802.00		NIST Webbook
rinpol	1804.00		NIST Webbook
rinpol	1802.00		NIST Webbook
rinpol	1806.00		NIST Webbook
rinpol	1800.00		NIST Webbook
rinpol	1800.00		NIST Webbook
rinpol	1799.00		NIST Webbook
rinpol	1800.00		NIST Webbook
tb	659.49	K	Joback Method
tc	830.94	K	Joback Method
tf	395.59	K	Joback Method
vc	0.841	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	607.17	J/molxK	659.49	Joback Method
cpg	622.31	J/molxK	688.06	Joback Method
cpg	636.82	J/molxK	716.64	Joback Method
cpg	650.68	J/molxK	745.21	Joback Method
cpg	663.88	J/molxK	773.79	Joback Method
cpg	676.40	J/molxK	802.36	Joback Method
cpg	688.23	J/molxK	830.94	Joback Method
dvisc	0.0006950	Paxs	395.59	Joback Method
dvisc	0.0003859	Paxs	439.57	Joback Method
dvisc	0.0002385	Paxs	483.56	Joback Method
dvisc	0.0001597	Paxs	527.54	Joback Method
dvisc	0.0001137	Paxs	571.52	Joback Method
dvisc	0.0000850	Paxs	615.51	Joback Method
dvisc	0.0000661	Paxs	659.49	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R152271&Units=SI
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

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/83-273-7/Tetraethylene-glycol-monoallyl-ether-acetate.pdf>

Generated by Cheméo on 2024-04-25 18:56:47.731984608 +0000 UTC m=+16360656.652561921.

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