Pentaethylene glycol, monoethyl ether

Other names: 3,6,9,12,15-pentaoxaheptadecan-1-ol
Inchi: InChI=1S/C12H26O6/c1-2-14-5-6-16-9-10-18-12-11-17-8-7-15-4-3-13/h13H,2-12H2,1H3
InchiKey: NJRFAMBTWHGSDE-UHFFFAOYSA-N
Formula: C12H26O6
SMILES: CCOCCOCCOCCOCCOCCO
Mol. weight [g/mol]: 266.33
CAS: 4353-29-1

Physical Properties

Property code	Value	Unit	Source
gf	-611.66	kJ/mol	Joback Method
hf	-1104.34	kJ/mol	Joback Method
hfus	36.86	kJ/mol	Joback Method
hvap	71.04	kJ/mol	Joback Method
log10ws	0.45		Crippen Method
logp	0.082		Crippen Method
mcvol	215.160	ml/mol	McGowan Method
pc	1790.91	kPa	Joback Method
rinpol	1842.00		NIST Webbook
rinpol	1842.00		NIST Webbook
tb	678.24	K	Joback Method
tc	841.15	K	Joback Method
tf	396.97	K	Joback Method
vc	0.817	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	619.90	J/mol×K	678.24	Joback Method
cpg	634.20	J/mol×K	705.39	Joback Method
cpg	647.94	J/mol×K	732.54	Joback Method
cpg	661.10	J/mol×K	759.70	Joback Method
cpg	673.66	J/mol×K	786.85	Joback Method
cpg	685.60	J/mol×K	814.00	Joback Method

cpg	696.91	J/mol×K	841.15	Joback Method
dvisc	0.0008989	Pa×s	396.97	Joback Method
dvisc	0.0003297	Pa×s	443.85	Joback Method
dvisc	0.0001464	Pa×s	490.73	Joback Method
dvisc	0.0000749	Pa×s	537.61	Joback Method
dvisc	0.0000427	Pa×s	584.48	Joback Method
dvisc	0.0000264	Pa×s	631.36	Joback Method
dvisc	0.0000175	Pa×s	678.24	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=C4353291&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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