Hexaethylele glycol, diacetate

Inchi: InChI=1S/C16H30O9/c1-15(17)24-13-11-22-9-7-20-5-3-19-4-6-21-8-10-23-12-14-25-16(2
InchiKey: FPPLOZYCGIGIMV-UHFFFAOYSA-N
Formula: C16H30O9
SMILES: CC(=O)OCCOCCOCCOCCOCCOCCOC(C)=O
Mol. weight [g/mol]: 366.40
CAS: 24997-24-8

Physical Properties

Property code	Value	Unit	Source
gf	-909.00	kJ/mol	Joback Method
hf	-1524.27	kJ/mol	Joback Method
hfus	48.71	kJ/mol	Joback Method
hvap	81.57	kJ/mol	Joback Method
log10ws	0.32		Crippen Method
logp	0.196		Crippen Method
mcvol	280.530	ml/mol	McGowan Method
pc	1325.20	kPa	Joback Method
rinpol	2366.00		NIST Webbook
rinpol	2367.00		NIST Webbook
rinpol	2362.90		NIST Webbook
tb	830.16	K	Joback Method
tc	1017.78	K	Joback Method
tf	525.55	K	Joback Method
vc	1.069	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	883.37	J/mol×K	830.16	Joback Method
cpg	898.80	J/mol×K	861.43	Joback Method
cpg	913.04	J/mol×K	892.70	Joback Method
cpg	926.05	J/mol×K	923.97	Joback Method
cpg	937.80	J/mol×K	955.24	Joback Method
cpg	948.23	J/mol×K	986.51	Joback Method

cpg	957.32	J/mol×K	1017.78	Joback Method
dvisc	0.0002023	Pa×s	525.55	Joback Method
dvisc	0.0001190	Pa×s	576.32	Joback Method
dvisc	0.0000763	Pa×s	627.09	Joback Method
dvisc	0.0000523	Pa×s	677.86	Joback Method
dvisc	0.0000378	Pa×s	728.62	Joback Method
dvisc	0.0000285	Pa×s	779.39	Joback Method
dvisc	0.0000222	Pa×s	830.16	Joback Method

Sources

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=C24997248&Units=SI
Crippen Method: http://pubs.acs.org/doi/abs/10.1021/ci990307l

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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