1,3,6,9,11,14-Hexaoxacyclohexadecane

Inchi: InChI=1S/C10H20O6/c1-5-13-9-15-7-3-12-4-8-16-10-14-6-2-11-1/h1-10H2
InchiKey: ZHVSEGINSVAYOE-UHFFFAOYSA-N
Formula: C10H20O6
SMILES: C1COCOCCOCCOCOCCO1
Mol. weight [g/mol]: 236.26
CAS: 74485-37-3

Physical Properties

Property code	Value	Unit	Source
gf	-572.24	kJ/mol	Joback Method
hf	-1028.67	kJ/mol	Joback Method
hfus	39.29	kJ/mol	Joback Method
hvap	67.37	kJ/mol	Joback Method
log10ws	0.58		Crippen Method
logp	0.015		Crippen Method
mcvol	176.120	ml/mol	McGowan Method
pc	3287.81	kPa	Joback Method
tb	656.82	K	Joback Method
tc	922.47	K	Joback Method
tf	338.30	K	Joback Method
vc	0.576	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	518.80	J/mol×K	656.82	Joback Method
cpg	543.40	J/mol×K	701.09	Joback Method
cpg	565.88	J/mol×K	745.37	Joback Method
cpg	586.13	J/mol×K	789.64	Joback Method
cpg	604.04	J/mol×K	833.92	Joback Method
cpg	619.51	J/mol×K	878.19	Joback Method
cpg	632.42	J/mol×K	922.47	Joback Method
dvisc	0.0135178	Pa×s	338.30	Joback Method
dvisc	0.0017361	Pa×s	391.39	Joback Method

dvisc	0.0003640	Pa×s	444.47	Joback Method
dvisc	0.0001065	Pa×s	497.56	Joback Method
dvisc	0.0000395	Pa×s	550.65	Joback Method
dvisc	0.0000174	Pa×s	603.73	Joback Method
dvisc	0.0000088	Pa×s	656.82	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C74485373&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
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772

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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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