

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:	C1COCOCCOCCOCCO1
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	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	518.80	J/molxK	656.82	Joback Method
cpg	619.51	J/molxK	878.19	Joback Method
cpg	604.04	J/molxK	833.92	Joback Method
cpg	586.13	J/molxK	789.64	Joback Method
cpg	565.88	J/molxK	745.37	Joback Method
cpg	543.40	J/molxK	701.09	Joback Method
cpg	632.42	J/molxK	922.47	Joback Method
dvisc	0.0000088	Paxs	656.82	Joback Method
dvisc	0.0000174	Paxs	603.73	Joback Method

dvisc	0.0000395	Paxs	550.65	Joback Method
dvisc	0.0001065	Paxs	497.56	Joback Method
dvisc	0.0003640	Paxs	444.47	Joback Method
dvisc	0.0017361	Paxs	391.39	Joback Method
dvisc	0.0135178	Paxs	338.30	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=C74485373&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
mccvol:	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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