2,2,3,3,4,4,5,5-Octafluoro-1,6-hexanediol

Other names: 1,6-Hexanediol, 2,2,3,3,4,4,5,5-octafluoro-
Inchi: InChI=1S/C6H6F8O2/c7-3(8,1-15)5(11,12)6(13,14)4(9,10)2-16/h15-16H,1-2H2
InchiKey: NHEKBXPLFJSSBZ-UHFFFAOYSA-N
Formula: C6H6F8O2
SMILES: OCC(F)(F)C(F)(F)C(F)(F)C(F)(F)CO
Mol. weight [g/mol]: 262.10
CAS: 355-74-8

Physical Properties

Property code	Value	Unit	Source
gf	-1821.12	kJ/mol	Joback Method
hf	-2075.51	kJ/mol	Joback Method
hfus	14.46	kJ/mol	Joback Method
hvap	50.59	kJ/mol	Joback Method
log10ws	-2.12		Crippen Method
logp	1.512		Crippen Method
mcvol	121.300	ml/mol	McGowan Method
pc	2787.66	kPa	Joback Method
tb	502.28	K	Joback Method
tc	640.60	K	Joback Method
tf	293.42	K	Joback Method
vc	0.509	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	335.46	J/mol×K	502.28	Joback Method
cpg	343.56	J/mol×K	525.33	Joback Method
cpg	351.10	J/mol×K	548.39	Joback Method
cpg	358.10	J/mol×K	571.44	Joback Method
cpg	364.60	J/mol×K	594.49	Joback Method
cpg	370.62	J/mol×K	617.54	Joback Method
cpg	376.20	J/mol×K	640.60	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C355748&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
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