3,6,9,12,15,18,21,24-octaoxahexacosane-1,26-diol

Other names: 2-[2-[2-[2-[2-[2-[2-[2-(2-Hydroxyethoxy)ethoxy]ethoxy]ethoxy]ethoxy]ethoxy]ethoxy]ethoxy
Inchi: InChI=1S/C18H38O10/c19-1-3-21-5-7-23-9-11-25-13-15-27-17-18-28-16-14-26-12-10-24
InchiKey: YZUUTMGDONTGTN-UHFFFAOYSA-N
Formula: C18H38O10
SMILES: OCCOCCOCCOCCOCCOCCOCCOCCOCCO
Mol. weight [g/mol]: 414.49
CAS: 3386-18-3

Physical Properties

Property code	Value	Unit	Source
gf	-1012.96	kJ/mol	Joback Method
hf	-1777.07	kJ/mol	Joback Method
hfus	60.06	kJ/mol	Joback Method
hvap	108.30	kJ/mol	Joback Method
log10ws	1.42		Crippen Method
logp	-0.896		Crippen Method
mcvol	323.180	ml/mol	McGowan Method
pc	1190.70	kPa	Joback Method
rinpol	2936.50		NIST Webbook
rinpol	2936.50		NIST Webbook
tb	974.96	K	Joback Method
tc	1223.10	K	Joback Method
tf	592.10	K	Joback Method
vc	1.226	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1123.50	J/mol×K	974.96	Joback Method
cpg	1139.18	J/mol×K	1016.32	Joback Method
cpg	1152.16	J/mol×K	1057.67	Joback Method
cpg	1162.37	J/mol×K	1099.03	Joback Method
cpg	1169.71	J/mol×K	1140.39	Joback Method
cpg	1174.08	J/mol×K	1181.74	Joback Method

cpg	1175.39	J/mol×K	1223.10	Joback Method
dvisc	0.0000149	Pa×s	592.10	Joback Method
dvisc	0.0000052	Pa×s	655.91	Joback Method
dvisc	0.0000022	Pa×s	719.72	Joback Method
dvisc	0.0000011	Pa×s	783.53	Joback Method
dvisc	0.0000006	Pa×s	847.34	Joback Method
dvisc	0.0000003	Pa×s	911.15	Joback Method
dvisc	0.0000002	Pa×s	974.96	Joback Method

Sources

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
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C3386183&Units=SI

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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