

Hexaethylene glycol monomethyl ether

Other names:	2,5,8,11,14,17-hexaoxanonadecan-19-ol 2-[2-[2-[2-[2-(2-Methoxyethoxy)ethoxy]ethoxy]ethoxy]ethoxy]ethanol
Inchi:	InChI=1S/C13H28O7/c1-15-4-5-17-8-9-19-12-13-20-11-10-18-7-6-16-3-2-14/h14H,2-13H
InchiKey:	FHHGCKHKTAJLOM-UHFFFAOYSA-N
Formula:	C13H28O7
SMILES:	COCCOCCOCCOCCOCCOCCO
Mol. weight [g/mol]:	296.36
CAS:	23601-40-3

Physical Properties

Property code	Value	Unit	Source
gf	-708.24	kJ/mol	Joback Method
hf	-1257.20	kJ/mol	Joback Method
hfus	40.64	kJ/mol	Joback Method
hvap	75.67	kJ/mol	Joback Method
log10ws	0.95		Crippen Method
logp	-0.292		Crippen Method
mcvol	235.120	ml/mol	McGowan Method
pc	1631.17	kPa	Joback Method
rinpol	2056.00		NIST Webbook
rinpol	2069.10		NIST Webbook
rinpol	2069.10		NIST Webbook
tb	723.54	K	Joback Method
tc	890.67	K	Joback Method
tf	430.47	K	Joback Method
vc	0.890	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	704.43	J/mol×K	723.54	Joback Method
cpg	719.38	J/mol×K	751.39	Joback Method
cpg	733.65	J/mol×K	779.25	Joback Method
cpg	747.20	J/mol×K	807.10	Joback Method

cpg	760.02	J/mol×K	834.96	Joback Method
cpg	772.08	J/mol×K	862.81	Joback Method
cpg	783.36	J/mol×K	890.67	Joback Method
dvisc	0.0004398	Pa×s	430.47	Joback Method
dvisc	0.0001711	Pa×s	479.31	Joback Method
dvisc	0.0000793	Pa×s	528.16	Joback Method
dvisc	0.0000419	Pa×s	577.00	Joback Method
dvisc	0.0000244	Pa×s	625.85	Joback Method
dvisc	0.0000154	Pa×s	674.69	Joback Method
dvisc	0.0000103	Pa×s	723.54	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=C23601403&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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