

2-(2-(2-(2-(2-Butoxy-ethoxy)-ethoxy)-ethoxy)-ethoxy)-ethoxy-

Other names:
acetate

Hexaethylene glycol, butyl ether, acetate

Inchi: InChI=1S/C18H36O8/c1-3-4-5-20-6-7-21-8-9-22-10-11-23-12-13-24-14-15-25-16-17-26-

InchiKey: DPTFJHAKQAAGMW-UHFFFAOYSA-N

Formula: C18H36O8

SMILES: CCCCOCOCOCOCOCOCOCOCOCOC(C)=O

Mol. weight [g/mol]: 380.47

Physical Properties

Property code	Value	Unit	Source
gf	-763.24	kJ/mol	Joback Method
hf	-1452.97	kJ/mol	Joback Method
hfus	52.29	kJ/mol	Joback Method
hvap	79.28	kJ/mol	Joback Method
log10ws	-0.74		Crippen Method
logp	1.449		Crippen Method
mcvol	307.140	ml/mol	McGowan Method
pc	1109.63	kPa	Joback Method
rinpol	2539.80		NIST Webbook
rinpol	2539.80		NIST Webbook
tb	822.05	K	Joback Method
tc	1006.70	K	Joback Method
tf	498.16	K	Joback Method
vc	1.175	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	981.29	J/mol×K	822.05	Joback Method
cpg	999.04	J/mol×K	852.83	Joback Method
cpg	1015.58	J/mol×K	883.60	Joback Method
cpg	1030.86	J/mol×K	914.38	Joback Method
cpg	1044.85	J/mol×K	945.15	Joback Method
cpg	1057.52	J/mol×K	975.93	Joback Method
cpg	1068.83	J/mol×K	1006.70	Joback Method

dvisc	0.0002034	Paxs	498.16	Joback Method
dvisc	0.0001106	Paxs	552.14	Joback Method
dvisc	0.0000670	Paxs	606.12	Joback Method
dvisc	0.0000441	Paxs	660.11	Joback Method
dvisc	0.0000309	Paxs	714.09	Joback Method
dvisc	0.0000227	Paxs	768.07	Joback Method
dvisc	0.0000174	Paxs	822.05	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R188077&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
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
mvol:	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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