

2-(2-Hydroxyethoxy)ethyl acetate

Other names:	Diethylene glycol, monoacetate
Inchi:	InChI=1S/C6H12O4/c1-6(8)10-5-4-9-3-2-7/h7H,2-5H2,1H3
InchiKey:	XXXFZKQPYACQLD-UHFFFAOYSA-N
Formula:	C6H12O4
SMILES:	CC(=O)OCCOCCO
Mol. weight [g/mol]:	148.16

Physical Properties

Property code	Value	Unit	Source
gf	-476.10	kJ/mol	Joback Method
hf	-696.42	kJ/mol	Joback Method
hfus	19.36	kJ/mol	Joback Method
hvap	57.20	kJ/mol	Joback Method
log10ws	0.45		Crippen Method
logp	-0.442		Crippen Method
mcvol	114.580	ml/mol	McGowan Method
pc	3572.80	kPa	Joback Method
tb	527.57	K	Joback Method
tc	698.08	K	Joback Method
tf	312.59	K	Joback Method
vc	0.432	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	267.46	J/mol×K	527.57	Joback Method
cpg	276.29	J/mol×K	555.99	Joback Method
cpg	284.83	J/mol×K	584.41	Joback Method
cpg	293.09	J/mol×K	612.82	Joback Method
cpg	301.06	J/mol×K	641.24	Joback Method
cpg	308.72	J/mol×K	669.66	Joback Method
cpg	316.08	J/mol×K	698.08	Joback Method
dvisc	0.0065558	Pa×s	312.59	Joback Method
dvisc	0.0023758	Pa×s	348.42	Joback Method

dvisc	0.0010404	Pa×s	384.25	Joback Method
dvisc	0.0005245	Pa×s	420.08	Joback Method
dvisc	0.0002945	Pa×s	455.91	Joback Method
dvisc	0.0001799	Pa×s	491.74	Joback Method
dvisc	0.0001175	Pa×s	527.57	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U351924&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
mcvol:	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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