2-(2-Methoxyethoxy)ethyl acetate

Inchi: InChI=1S/C7H14O4/c1-7(8)11-6-5-10-4-3-9-2/h3-6H2,1-2H3
InchiKey: BJINVQNEBGOMCR-UHFFFAOYSA-N
Formula: C7H14O4
SMILES: COCCOCCOC(C)=O
Mol. weight [g/mol]: 162.18
CAS: 629-38-9

Physical Properties

Property code	Value	Unit	Source
gf	-435.86	kJ/mol	Joback Method
hf	-697.05	kJ/mol	Joback Method
hfus	19.05	kJ/mol	Joback Method
hvap	45.15	kJ/mol	Joback Method
log10ws	0.21		Crippen Method
logp	0.213		Crippen Method
mcvol	128.670	ml/mol	McGowan Method
pc	2835.36	kPa	Joback Method
rinpol	1121.80		NIST Webbook
tb	480.69	K	Joback Method
tc	656.20	K	Joback Method
tf	285.27	K	Joback Method
vc	0.487	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	284.81	J/mol×K	480.69	Joback Method
cpg	295.67	J/mol×K	509.94	Joback Method
cpg	306.26	J/mol×K	539.19	Joback Method
cpg	316.56	J/mol×K	568.45	Joback Method
cpg	326.56	J/mol×K	597.70	Joback Method
cpg	336.23	J/mol×K	626.95	Joback Method
cpg	345.57	J/mol×K	656.20	Joback Method
dvisc	0.0018188	Pa×s	285.27	Joback Method

dvisc	0.0010304	Pa×s	317.84	Joback Method
dvisc	0.0006487	Pa×s	350.41	Joback Method
dvisc	0.0004419	Pa×s	382.98	Joback Method
dvisc	0.0003197	Pa×s	415.55	Joback Method
dvisc	0.0002424	Pa×s	448.12	Joback Method
dvisc	0.0001908	Pa×s	480.69	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=C629389&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