Ethanol, 2-[2-(2-methoxyethoxy)ethoxy]-, acetate

Other names: Triethylene glycol monomethyl ether acetate
Acetic acid, 2-(2-(2-methoxyethoxy)ethoxy)ethyl ester
2-(2-(2-Methoxyethoxy)ethoxy)ethylester kyseliny octove
2-(2-(2-Methoxyethoxy)ethoxy)ethyl acetate
3,6,9-Trioxadecylester kyseliny octove
Methyltriglycol acetate

Inchi: InChI=1S/C9H18O5/c1-9(10)14-8-7-13-6-5-12-4-3-11-2/h3-8H2,1-2H3

InchiKey: SDHQGBWMLCBNSM-UHFFFAOYSA-N

Formula: C9H18O5

SMILES: COCCOCCOCCOC(C)=O

Mol. weight [g/mol]: 206.24

CAS: 3610-27-3

Physical Properties

Property code	Value	Unit	Source
gf	-524.02	kJ/mol	Joback Method
hf	-870.55	kJ/mol	Joback Method
hfus	25.42	kJ/mol	Joback Method
hvap	52.01	kJ/mol	Joback Method
log10ws	0.29		Crippen Method
logp	0.229		Crippen Method
mcvol	162.720	ml/mol	McGowan Method
pc	2295.91	kPa	Joback Method
rinpol	1392.00		NIST Webbook
rinpol	1392.00		NIST Webbook
tb	548.87	K	Joback Method
tc	721.01	K	Joback Method
tf	330.04	K	Joback Method
vc	0.618	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	398.52	J/mol×K	548.87	Joback Method

cpg	458.85	J/mol×K	692.32	Joback Method
cpg	447.63	J/mol×K	663.63	Joback Method
cpg	435.96	J/mol×K	634.94	Joback Method
cpg	423.88	J/mol×K	606.25	Joback Method
cpg	411.39	J/mol×K	577.56	Joback Method
cpg	469.62	J/mol×K	721.01	Joback Method
dvisc	0.0001296	Pa×s	548.87	Joback Method
dvisc	0.0001656	Pa×s	512.40	Joback Method
dvisc	0.0002198	Pa×s	475.93	Joback Method
dvisc	0.0003058	Pa×s	439.46	Joback Method
dvisc	0.0004515	Pa×s	402.98	Joback Method
dvisc	0.0007205	Pa×s	366.51	Joback Method
dvisc	0.0012747	Pa×s	330.04	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=C3610273&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