

2-[2-[2-(2-Methoxyethoxy)ethoxy]ethoxy]ethyl acetate

Other names:	Tetraethylene glycol monomethyl ether, acetate 3,6,9,12-Tetraoxatridec-1-yl acetate
Inchi:	InChI=1S/C11H22O6/c1-11(12)17-10-9-16-8-7-15-6-5-14-4-3-13-2/h3-10H2,1-2H3
InchiKey:	OVMHYFTZTYLUHL-UHFFFAOYSA-N
Formula:	C11H22O6
SMILES:	COCCOCCOCCOCCOC(C)=O
Mol. weight [g/mol]:	250.29

Physical Properties

Property code	Value	Unit	Source
gf	-612.18	kJ/mol	Joback Method
hf	-1044.05	kJ/mol	Joback Method
hfus	31.79	kJ/mol	Joback Method
hvap	58.88	kJ/mol	Joback Method
log10ws	0.36		Crippen Method
logp	0.246		Crippen Method
mcvol	196.770	ml/mol	McGowan Method
pc	1896.95	kPa	Joback Method
rinpol	1667.60		NIST Webbook
rinpol	1667.60		NIST Webbook
tb	617.05	K	Joback Method
tc	787.04	K	Joback Method
tf	374.81	K	Joback Method
vc	0.748	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	523.95	J/molxK	617.05	Joback Method
cpg	590.66	J/molxK	758.71	Joback Method
cpg	578.43	J/molxK	730.38	Joback Method
cpg	565.62	J/molxK	702.05	Joback Method
cpg	552.25	J/molxK	673.71	Joback Method
cpg	538.36	J/molxK	645.38	Joback Method

cpg	602.30	J/mol×K	787.04	Joback Method
dvisc	0.0000811	Paxs	617.05	Joback Method
dvisc	0.0001042	Paxs	576.68	Joback Method
dvisc	0.0001389	Paxs	536.30	Joback Method
dvisc	0.0001940	Paxs	495.93	Joback Method
dvisc	0.0002876	Paxs	455.56	Joback Method
dvisc	0.0004603	Paxs	415.18	Joback Method
dvisc	0.0008151	Paxs	374.81	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U351914&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
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
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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