

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

Other names:	Triethylene glycol monobutyl ether, acetate 3,6,9-Trioxatridec-1-yl acetate
Inchi:	InChI=1S/C12H24O5/c1-3-4-5-14-6-7-15-8-9-16-10-11-17-12(2)13/h3-11H2,1-2H3
InchiKey:	SGQLKNKVOZVAAY-UHFFFAOYSA-N
Formula:	C12H24O5
SMILES:	CCCCOCCOCCOCCOC(C)=O
Mol. weight [g/mol]:	248.32

Physical Properties

Property code	Value	Unit	Source
gf	-498.76	kJ/mol	Joback Method
hf	-932.47	kJ/mol	Joback Method
hfus	33.19	kJ/mol	Joback Method
hvap	58.69	kJ/mol	Joback Method
log10ws	-0.97		Crippen Method
logp	1.399		Crippen Method
mcvol	204.990	ml/mol	McGowan Method
pc	1772.85	kPa	Joback Method
rinpol	1627.30		NIST Webbook
rinpol	1627.30		NIST Webbook
rinpol	1690.00		NIST Webbook
tb	617.51	K	Joback Method
tc	786.87	K	Joback Method
tf	363.85	K	Joback Method
vc	0.785	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	548.11	J/molxK	617.51	Joback Method
cpg	563.27	J/molxK	645.74	Joback Method
cpg	577.87	J/molxK	673.96	Joback Method
cpg	591.90	J/molxK	702.19	Joback Method
cpg	605.34	J/molxK	730.42	Joback Method

cpg	618.17	J/mol×K	758.65	Joback Method
cpg	630.39	J/mol×K	786.87	Joback Method
dvisc	0.0010778	Paxs	363.85	Joback Method
dvisc	0.0005785	Paxs	406.13	Joback Method
dvisc	0.0003492	Paxs	448.40	Joback Method
dvisc	0.0002299	Paxs	490.68	Joback Method
dvisc	0.0001618	Paxs	532.96	Joback Method
dvisc	0.0001198	Paxs	575.23	Joback Method
dvisc	0.0000925	Paxs	617.51	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U351941&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
rinpola:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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