2-Propanol, 1-(2-butoxyethoxy)-

Other names:	2-Butoxy-1-(2'-hydroxypropoxy)ethane
	4,7-Dioxaundecan-2-ol
	1-Butoxyethoxy-2-propanol
	(Butoxyethoxy)propanol
	1-(2-Butoxyethoxy)-2-propanol
	1-(2-butoxyethoxy)propan-2-ol
Inchi:	InChI=1S/C9H20O3/c1-3-4-5-11-6-7-12-8-9(2)10/h9-10H,3-8H2,1-2H3
InchiKey:	NPMRPDRLIHYOBW-UHFFFAOYSA-N
Formula:	C9H20O3
SMILES:	CCCCOCCOCC(C)O
Mol. weight [g/mol]:	176.25
CAS:	124-16-3

Physical Properties

Property code	Value	Unit	Source
gf	-324.36	kJ/mol	Joback Method
hf	-651.04	kJ/mol	Joback Method
hfus	22.01	kJ/mol	Joback Method
hvap	56.74	kJ/mol	Joback Method
log10ws	-1.14		Crippen Method
logp	1.200		Crippen Method
mcvol	155.280	ml/mol	McGowan Method
pc	2460.47	kPa	Joback Method
rinpol	890.00		NIST Webbook
tb	503.15	K	NIST Webbook
tc	703.95	K	Joback Method
tf	281.47	K	Joback Method
vc	0.589	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	385.69	J/mol×K	541.90	Joback Method
cpg	443.66	J/mol×K	676.94	Joback Method

cpg	432.90	J/mol×K	649.93	Joback Method
cpg	421.72	J/mol×K	622.92	Joback Method
cpg	410.13	J/mol×K	595.92	Joback Method
cpg	398.11	J/mol×K	568.91	Joback Method
cpg	454.00	J/mol×K	703.95	Joback Method
dvisc	0.0000768	Pa×s	541.90	Joback Method
dvisc	0.0001277	Pa×s	498.50	Joback Method
dvisc	0.0002337	Pa×s	455.09	Joback Method
dvisc	0.0004859	Pa×s	411.69	Joback Method
dvisc	0.0012004	Pa×s	368.28	Joback Method
dvisc	0.0037768	Pa×s	324.88	Joback Method
dvisc	0.0169215	Pa×s	281.47	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=C124163&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