

2-(2-butoxyethoxy)ethanone

Inchi:	InChI=1S/C9H18O3/c1-2-3-4-6-11-8-9-12-7-5-10/h5H,2-4,6-9H2,1H3
InchiKey:	UCZDUPYLMYTAMD-UHFFFAOYSA-N
Formula:	C9H18O3
SMILES:	CCCCOCCOCC=O
Mol. weight [g/mol]:	174.24

Physical Properties

Property code	Value	Unit	Source
gf	-284.62	kJ/mol	Joback Method
hf	-579.11	kJ/mol	Joback Method
hfus	23.73	kJ/mol	Joback Method
hvap	47.17	kJ/mol	Joback Method
log10ws	-1.04		Crippen Method
logp	1.409		Crippen Method
mcvol	150.980	ml/mol	McGowan Method
pc	2398.22	kPa	Joback Method
ripol	1778.00		NIST Webbook
ripol	1778.00		NIST Webbook
ripol	1778.00		NIST Webbook
tb	498.82	K	Joback Method
tc	667.95	K	Joback Method
tf	277.65	K	Joback Method
vc	0.593	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	348.85	J/molxK	498.82	Joback Method
cpg	408.31	J/molxK	639.76	Joback Method
cpg	397.26	J/molxK	611.57	Joback Method
cpg	385.78	J/molxK	583.38	Joback Method
cpg	373.89	J/molxK	555.20	Joback Method
cpg	361.58	J/molxK	527.01	Joback Method
cpg	418.94	J/molxK	667.95	Joback Method

dvisc	0.0002157	Paxs	498.82	Joback Method
dvisc	0.0002784	Paxs	461.96	Joback Method
dvisc	0.0003755	Paxs	425.10	Joback Method
dvisc	0.0005362	Paxs	388.24	Joback Method
dvisc	0.0008250	Paxs	351.37	Joback Method
dvisc	0.0014043	Paxs	314.51	Joback Method
dvisc	0.0027531	Paxs	277.65	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R321145&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
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772

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
mvol:	McGowan's characteristic volume
pc:	Critical Pressure
ripol:	Polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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