Ethyl 3-methylbutan-2-yl carbonate

Inchi: InChI=1S/C8H16O3/c1-5-10-8(9)11-7(4)6(2)3/h6-7H,5H2,1-4H3
InchiKey: XXFPNRVPXCFNCD-UHFFFAOYSA-N
Formula: C8H16O3
SMILES: CCOC(=O)OC(C)C(C)C
Mol. weight [g/mol]: 160.21

Physical Properties

Property code	Value	Unit	Source
gf	-327.32	kJ/mol	Joback Method
hf	-596.03	kJ/mol	Joback Method
hfus	13.40	kJ/mol	Joback Method
hvap	44.19	kJ/mol	Joback Method
log10ws	-1.97		Crippen Method
logp	2.204		Crippen Method
mcvol	136.890	ml/mol	McGowan Method
pc	2654.29	kPa	Joback Method
rinpol	990.00		NIST Webbook
rinpol	990.00		NIST Webbook
tb	480.27	K	Joback Method
tc	662.33	K	Joback Method
tf	244.31	K	Joback Method
vc	0.513	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	304.20	J/mol×K	480.27	Joback Method
cpg	363.52	J/mol×K	631.99	Joback Method
cpg	352.53	J/mol×K	601.65	Joback Method
cpg	341.10	J/mol×K	571.30	Joback Method
cpg	329.23	J/mol×K	540.96	Joback Method
cpg	316.93	J/mol×K	510.61	Joback Method
cpg	374.06	J/mol×K	662.33	Joback Method
dvisc	0.0001926	Pa×s	480.27	Joback Method

dvisc	0.0002606	Pa×s	440.94	Joback Method
dvisc	0.0003743	Pa×s	401.62	Joback Method
dvisc	0.0005814	Pa×s	362.29	Joback Method
dvisc	0.0010055	Pa×s	322.96	Joback Method
dvisc	0.0020240	Pa×s	283.64	Joback Method
dvisc	0.0051039	Pa×s	244.31	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U373782&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
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
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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