(E)-But-2-enyl ethyl carbonate

Inchi: InChI=1S/C7H12O3/c1-3-5-6-10-7(8)9-4-2/h3,5H,4,6H2,1-2H3/b5-3+
InchiKey: MRBDGJQUEKDXFD-HWKANZROSA-N
Formula: C7H12O3
SMILES: CC=CCOC(=O)OCC
Mol. weight [g/mol]: 144.17

Physical Properties

Property code	Value	Unit	Source
gf	-250.64	kJ/mol	Joback Method
hf	-447.61	kJ/mol	Joback Method
hfus	18.06	kJ/mol	Joback Method
hvap	42.70	kJ/mol	Joback Method
log10ws	-1.53		Crippen Method
logp	1.736		Crippen Method
mcvol	118.500	ml/mol	McGowan Method
pc	3055.79	kPa	Joback Method
rinpol	996.00		NIST Webbook
tb	462.43	K	Joback Method
tc	646.77	K	Joback Method
tf	257.96	K	Joback Method
vc	0.450	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	245.14	J/mol×K	462.43	Joback Method
cpg	255.70	J/mol×K	493.15	Joback Method
cpg	265.89	J/mol×K	523.88	Joback Method
cpg	275.70	J/mol×K	554.60	Joback Method
cpg	285.14	J/mol×K	585.32	Joback Method
cpg	294.20	J/mol×K	616.05	Joback Method
cpg	302.89	J/mol×K	646.77	Joback Method
dvisc	0.0022304	Pa×s	257.96	Joback Method
dvisc	0.0011647	Pa×s	292.04	Joback Method

dvisc	0.0006967	Pa×s	326.12	Joback Method
dvisc	0.0004593	Pa×s	360.20	Joback Method
dvisc	0.0003254	Pa×s	394.27	Joback Method
dvisc	0.0002435	Pa×s	428.35	Joback Method
dvisc	0.0001902	Pa×s	462.43	Joback Method

Sources

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
NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=U373770&Units=SI

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