2,4-Dimethylpentan-3-yl ethyl carbonate

Inchi: InChI=1S/C10H20O3/c1-6-12-10(11)13-9(7(2)3)8(4)5/h7-9H,6H2,1-5H3
InchiKey: GTRBOBAVUJEMQK-UHFFFAOYSA-N
Formula: C10H20O3
SMILES: CCOC(=O)OC(C(C)C)C(C)C
Mol. weight [g/mol]: 188.26

Physical Properties

Property code	Value	Unit	Source
gf	-312.92	kJ/mol	Joback Method
hf	-642.59	kJ/mol	Joback Method
hfus	15.06	kJ/mol	Joback Method
hvap	48.26	kJ/mol	Joback Method
log10ws	-2.56		Crippen Method
logp	2.840		Crippen Method
mcvol	165.070	ml/mol	McGowan Method
pc	2214.53	kPa	Joback Method
rinpol	1115.00		NIST Webbook
tb	525.59	K	Joback Method
tc	707.71	K	Joback Method
tf	251.85	K	Joback Method
vc	0.620	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	394.97	J/mol×K	525.59	Joback Method
cpg	409.95	J/mol×K	555.94	Joback Method
cpg	424.37	J/mol×K	586.30	Joback Method
cpg	438.21	J/mol×K	616.65	Joback Method
cpg	451.48	J/mol×K	647.01	Joback Method
cpg	464.17	J/mol×K	677.36	Joback Method
cpg	476.28	J/mol×K	707.71	Joback Method
dvisc	0.0070821	Pa×s	251.85	Joback Method
dvisc	0.0022874	Pa×s	297.47	Joback Method

dvisc	0.0009978	Pa×s	343.10	Joback Method
dvisc	0.0005288	Pa×s	388.72	Joback Method
dvisc	0.0003203	Pa×s	434.34	Joback Method
dvisc	0.0002134	Pa×s	479.97	Joback Method
dvisc	0.0001525	Pa×s	525.59	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=U373796&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