Ethyl 2-methylenecyclopropanecarboxylate

Inchi: InChI=1S/C7H10O2/c1-3-9-7(8)6-4-5(6)2/h6H,2-4H2,1H3
InchiKey: SPCOBAXZQGNBHE-UHFFFAOYSA-N
Formula: C7H10O2
SMILES: C=C1CC1C(=O)OCC
Mol. weight [g/mol]: 126.15
CAS: 18941-94-1

Physical Properties

Property code	Value	Unit	Source
gf	-112.03	kJ/mol	Joback Method
hf	-275.57	kJ/mol	Joback Method
hfus	13.65	kJ/mol	Joback Method
hvap	40.40	kJ/mol	Joback Method
log10ws	-1.12		Crippen Method
logp	1.126		Crippen Method
mcvol	101.770	ml/mol	McGowan Method
pc	3480.65	kPa	Joback Method
tb	441.75	K	Joback Method
tc	634.27	K	Joback Method
tf	272.43	K	Joback Method
vc	0.393	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	208.82	J/mol×K	441.75	Joback Method
cpg	257.74	J/mol×K	602.19	Joback Method
cpg	248.90	J/mol×K	570.10	Joback Method
cpg	239.60	J/mol×K	538.01	Joback Method
cpg	229.83	J/mol×K	505.92	Joback Method
cpg	219.57	J/mol×K	473.84	Joback Method
cpg	266.15	J/mol×K	634.27	Joback Method
dvisc	0.0004635	Pa×s	441.75	Joback Method
dvisc	0.0005140	Pa×s	413.53	Joback Method

dvisc	0.0005787	Pa×s	385.31	Joback Method
dvisc	0.0006639	Pa×s	357.09	Joback Method
dvisc	0.0007798	Pa×s	328.87	Joback Method
dvisc	0.0009440	Pa×s	300.65	Joback Method
dvisc	0.0011890	Pa×s	272.43	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=C18941941&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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume