Succinic acid, di(but-2-en-1-yl) ester

Inchi: InChI=1S/C12H18O4/c1-3-5-9-15-11(13)7-8-12(14)16-10-6-4-2/h3-6H,7-10H2,1-2H3/b5-
InchiKey: PUASBHVEXSYHGK-GGWOSOGESA-N
Formula: C12H18O4
SMILES: CC=CCOC(=O)CCC(=O)OCC=CC
Mol. weight [g/mol]: 226.27

Physical Properties

Property code	Value	Unit	Source
gf	-257.24	kJ/mol	Joback Method
hf	-546.17	kJ/mol	Joback Method
hfus	32.81	kJ/mol	Joback Method
hvap	60.53	kJ/mol	Joback Method
log10ws	-2.28		Crippen Method
logp	2.005		Crippen Method
mcvol	186.220	ml/mol	McGowan Method
pc	2115.83	kPa	Joback Method
rinpol	1577.00		NIST Webbook
tb	634.86	K	Joback Method
tc	825.03	K	Joback Method
tf	359.16	K	Joback Method
vc	0.716	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	473.85	J/mol×K	634.86	Joback Method
cpg	487.41	J/mol×K	666.55	Joback Method
cpg	500.28	J/mol×K	698.25	Joback Method
cpg	512.49	J/mol×K	729.94	Joback Method
cpg	524.06	J/mol×K	761.64	Joback Method
cpg	535.00	J/mol×K	793.33	Joback Method
cpg	545.33	J/mol×K	825.03	Joback Method
dvisc	0.0014657	Pa×s	359.16	Joback Method
dvisc	0.0007481	Pa×s	405.11	Joback Method

dvisc	0.0004380	Pa×s	451.06	Joback Method
dvisc	0.0002831	Pa×s	497.01	Joback Method
dvisc	0.0001970	Pa×s	542.96	Joback Method
dvisc	0.0001451	Pa×s	588.91	Joback Method
dvisc	0.0001117	Pa×s	634.86	Joback Method

Sources

NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=U391233&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