

Succinic acid, isopropyl-

Inchi:	InChI=1S/C7H12O4/c1-4(2)5(7(10)11)3-6(8)9/h4-5H,3H2,1-2H3,(H,8,9)(H,10,11)
InchiKey:	RKAFKUROUOLPOL-UHFFFAOYSA-N
Formula:	C7H12O4
SMILES:	CC(C)C(CC(=O)O)C(=O)O
Mol. weight [g/mol]:	160.17
CAS:	2338-45-6

Physical Properties

Property code	Value	Unit	Source
gf	-528.30	kJ/mol	Joback Method
hf	-727.99	kJ/mol	Joback Method
hfus	18.21	kJ/mol	Joback Method
hvap	77.25	kJ/mol	Joback Method
log10ws	-0.47		Crippen Method
logp	0.818		Crippen Method
mcvol	124.370	ml/mol	McGowan Method
pc	4088.15	kPa	Joback Method
tb	650.78	K	Joback Method
tc	829.04	K	Joback Method
tf	360.15	K	Joback Method
vc	0.466	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	325.42	J/mol×K	650.78	Joback Method
cpg	362.06	J/mol×K	799.33	Joback Method
cpg	355.53	J/mol×K	769.62	Joback Method
cpg	348.61	J/mol×K	739.91	Joback Method
cpg	341.29	J/mol×K	710.20	Joback Method
cpg	333.56	J/mol×K	680.49	Joback Method
cpg	368.22	J/mol×K	829.04	Joback Method
dvisc	0.0000261	Pa×s	650.78	Joback Method
dvisc	0.0000482	Pa×s	602.34	Joback Method

dvisc	0.0000992	Pa×s	553.90	Joback Method
dvisc	0.0002348	Pa×s	505.46	Joback Method
dvisc	0.0006666	Pa×s	457.03	Joback Method
dvisc	0.0024239	Pa×s	408.59	Joback Method
dvisc	0.0124729	Pa×s	360.15	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=C2338456&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

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