

Succinic acid, monochloride cis-hex-3-enyl ester

Inchi:	InChI=1S/C10H15ClO3/c1-2-3-4-5-8-14-10(13)7-6-9(11)12/h3-4H,2,5-8H2,1H3/b4-3-
InchiKey:	NZPJHOGEVJAUIC-ARJAWSKDSA-N
Formula:	C10H15ClO3
SMILES:	CCC=CCCOC(=O)CCC(=O)Cl
Mol. weight [g/mol]:	218.68

Physical Properties

Property code	Value	Unit	Source
gf	-261.23	kJ/mol	Joback Method
hf	-505.63	kJ/mol	Joback Method
hfus	30.44	kJ/mol	Joback Method
hvap	58.10	kJ/mol	Joback Method
log10ws	-2.65		Crippen Method
logp	2.431		Crippen Method
mcvol	168.710	ml/mol	McGowan Method
pc	2370.28	kPa	Joback Method
rinsol	1478.00		NIST Webbook
tb	599.95	K	Joback Method
tc	792.66	K	Joback Method
tf	349.39	K	Joback Method
vc	0.654	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	397.92	J/molxK	599.95	Joback Method
cpg	452.71	J/molxK	760.54	Joback Method
cpg	442.93	J/molxK	728.43	Joback Method
cpg	432.58	J/molxK	696.31	Joback Method
cpg	421.64	J/molxK	664.19	Joback Method
cpg	410.09	J/molxK	632.07	Joback Method
cpg	461.94	J/molxK	792.66	Joback Method
dvisc	0.0001925	Paxs	599.95	Joback Method
dvisc	0.0002475	Paxs	558.19	Joback Method

dvisc	0.0003313	Paxs	516.43	Joback Method
dvisc	0.0004669	Paxs	474.67	Joback Method
dvisc	0.0007031	Paxs	432.91	Joback Method
dvisc	0.0011554	Paxs	391.15	Joback Method
dvisc	0.0021381	Paxs	349.39	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U353423&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
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

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