

Succinic acid, 2-(adamant-1-yl)ethyl 2,2-dichloroethyl ester

Inchi:	InChI=1S/C18H26Cl2O4/c19-15(20)11-24-17(22)2-1-16(21)23-4-3-18-8-12-5-13(9-18)7-
InchiKey:	UQWXAYDLHHYETA-UHFFFAOYSA-N
Formula:	C18H26Cl2O4
SMILES:	O=C(CCC(=O)OCC(Cl)Cl)OCCC12CC3CC(CC(C3)C1)C2
Mol. weight [g/mol]:	377.30

Physical Properties

Property code	Value	Unit	Source
gf	-236.51	kJ/mol	Joback Method
hf	-734.07	kJ/mol	Joback Method
hfus	39.90	kJ/mol	Joback Method
hvap	80.81	kJ/mol	Joback Method
log10ws	-4.71		Crippen Method
logp	4.263		Crippen Method
mvol	271.260	ml/mol	McGowan Method
pc	1609.00	kPa	Joback Method
rinpol	2770.00		NIST Webbook
rinpol	2770.00		NIST Webbook
tb	858.30	K	Joback Method
tc	1076.71	K	Joback Method
tf	551.74	K	Joback Method
vc	1.044	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	865.27	J/mol×K	858.30	Joback Method
cpg	883.57	J/mol×K	894.70	Joback Method
cpg	901.49	J/mol×K	931.10	Joback Method
cpg	919.23	J/mol×K	967.51	Joback Method
cpg	936.97	J/mol×K	1003.91	Joback Method
cpg	954.89	J/mol×K	1040.31	Joback Method
cpg	973.18	J/mol×K	1076.71	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=U391365&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307I

Legend

cpg:	Ideal gas heat capacity
gf:	Standard Gibbs free energy of formation
hf:	Enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
hvp:	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
rinp:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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