

Succinic acid, 2,2-dichloroethyl 4-bromo-2-methoxyphenyl ester

Inchi: InChI=1S/C13H13BrCl2O5/c1-19-10-6-8(14)2-3-9(10)21-13(18)5-4-12(17)20-7-11(15)16
InchiKey: AYZQEKNFFHVXEF-UHFFFAOYSA-N
Formula: C13H13BrCl2O5
SMILES: COc1cc(Br)ccc1OC(=O)CCC(=O)OCC(Cl)Cl
Mol. weight [g/mol]: 400.05

Physical Properties

Property code	Value	Unit	Source
gf	-433.09	kJ/mol	Joback Method
hf	-730.31	kJ/mol	Joback Method
hfus	39.61	kJ/mol	Joback Method
hvap	83.67	kJ/mol	Joback Method
log10ws	-4.52		Crippen Method
logp	3.490		Crippen Method
mcvol	233.000	ml/mol	McGowan Method
pc	2295.91	kPa	Joback Method
rinpol	2551.00		NIST Webbook
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tb	849.06	K	Joback Method
tc	1076.28	K	Joback Method
tf	558.92	K	Joback Method
vc	0.875	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	591.72	J/molxK	849.06	Joback Method
cpg	601.62	J/molxK	886.93	Joback Method
cpg	610.51	J/molxK	924.80	Joback Method
cpg	618.36	J/molxK	962.67	Joback Method
cpg	625.18	J/molxK	1000.54	Joback Method
cpg	630.97	J/molxK	1038.41	Joback Method
cpg	635.72	J/molxK	1076.28	Joback Method
dvisc	0.0003763	Paxs	558.92	Joback Method

dvisc	0.0002458	Paxs	607.28	Joback Method
dvisc	0.0001710	Paxs	655.63	Joback Method
dvisc	0.0001250	Paxs	703.99	Joback Method
dvisc	0.0000951	Paxs	752.35	Joback Method
dvisc	0.0000748	Paxs	800.70	Joback Method
dvisc	0.0000605	Paxs	849.06	Joback Method

Sources

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=U390915&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

Legend

cp_g:	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:	Log ₁₀ 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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