

Succinic acid, 3-chlorophenyl 2-bromo-4-fluorophenyl ester

Inchi:	InChI=1S/C16H11BrClFO4/c17-13-9-11(19)4-5-14(13)23-16(21)7-6-15(20)22-12-3-1-2-1
InchiKey:	LCZZWYZYMALDLA-UHFFFAOYSA-N
Formula:	C16H11BrClFO4
SMILES:	O=C(CCC(=O)Oc1ccc(F)cc1Br)Oc1cccc(Cl)c1
Mol. weight [g/mol]:	401.61

Physical Properties

Property code	Value	Unit	Source
gf	-380.49	kJ/mol	Joback Method
hf	-610.04	kJ/mol	Joback Method
hfus	42.25	kJ/mol	Joback Method
hvap	86.06	kJ/mol	Joback Method
log10ws	-5.93		Crippen Method
logp	4.533		Crippen Method
mcvol	235.170	ml/mol	McGowan Method
pc	2361.07	kPa	Joback Method
rinpola	2585.00		NIST Webbook
rinpola	2585.00		NIST Webbook
tb	889.22	K	Joback Method
tc	1129.22	K	Joback Method
tf	595.11	K	Joback Method
vc	0.892	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	614.21	J/molxK	889.22	Joback Method
cpg	623.79	J/molxK	929.22	Joback Method
cpg	632.27	J/molxK	969.22	Joback Method
cpg	639.68	J/molxK	1009.22	Joback Method
cpg	646.04	J/molxK	1049.22	Joback Method
cpg	651.40	J/molxK	1089.22	Joback Method
cpg	655.78	J/molxK	1129.22	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U389771&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
gf:	Standard Gibbs free energy of formation
hf:	Enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
hvpap:	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
rinppl:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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