

# Succinic acid, 2,4,6-trichlorophenyl 2-bromo-4-fluorophenyl ester

<b>Inchi:</b>	InChI=1S/C16H9BrCl3FO4/c17-10-7-9(21)1-2-13(10)24-14(22)3-4-15(23)25-16-11(19)5-
<b>InchiKey:</b>	MNKBBVQYDMMBBPE-UHFFFAOYSA-N
<b>Formula:</b>	C16H9BrCl3FO4
<b>SMILES:</b>	O=C(CCC(=O)Oc1c(Cl)cc(Cl)cc1Cl)Oc1ccc(F)cc1Br
<b>Mol. weight [g/mol]:</b>	470.50

## Physical Properties

Property code	Value	Unit	Source
gf	-423.61	kJ/mol	Joback Method
hf	-664.46	kJ/mol	Joback Method
hfus	49.86	kJ/mol	Joback Method
hvap	96.16	kJ/mol	Joback Method
log10ws	-7.30		Crippen Method
logp	5.840		Crippen Method
mvol	259.650	ml/mol	McGowan Method
pc	2139.38	kPa	Joback Method
rinpol	2882.00		NIST Webbook
rinpol	2882.00		NIST Webbook
tb	974.04	K	Joback Method
tc	1221.01	K	Joback Method
tf	679.99	K	Joback Method
vc	0.991	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	644.05	J/molxK	974.04	Joback Method
cpg	650.94	J/molxK	1015.20	Joback Method
cpg	656.72	J/molxK	1056.36	Joback Method
cpg	661.41	J/molxK	1097.52	Joback Method
cpg	665.03	J/molxK	1138.69	Joback Method
cpg	667.60	J/molxK	1179.85	Joback Method
cpg	669.14	J/molxK	1221.01	Joback Method

# Sources

<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci9903071">http://pubs.acs.org/doi/abs/10.1021/ci9903071</a>
<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>
<b>Joback Method:</b>	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</a>
<b>McGowan Method:</b>	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</a>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U389776&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U389776&amp;Units=SI</a>

# Legend

<b>cpg:</b>	Ideal gas heat capacity
<b>gf:</b>	Standard Gibbs free energy of formation
<b>hf:</b>	Enthalpy of formation at standard conditions
<b>hfus:</b>	Enthalpy of fusion at standard conditions
<b>hvap:</b>	Enthalpy of vaporization at standard conditions
<b>log10ws:</b>	Log10 of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>mcvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>rinpola:</b>	Non-polar retention indices
<b>tb:</b>	Normal Boiling Point Temperature
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

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