

# Succinic acid, 4-chloro-3-methylphenyl 1-bromo-3,3,3-trifluoroprop-2-yl ester

<b>Inchi:</b>	InChI=1S/C14H13BrClF3O4/c1-8-6-9(2-3-10(8)16)22-12(20)4-5-13(21)23-11(7-15)14(17)
<b>InchiKey:</b>	VDLPJOBOTMTZAS-UHFFFAOYSA-N
<b>Formula:</b>	C14H13BrClF3O4
<b>SMILES:</b>	Cc1cc(OC(=O)CCC(=O)OC(CBr)C(F)(F)F)ccc1Cl
<b>Mol. weight [g/mol]:</b>	417.60

## Physical Properties

Property code	Value	Unit	Source
gf	-889.33	kJ/mol	Joback Method
hf	-1200.07	kJ/mol	Joback Method
hfus	38.64	kJ/mol	Joback Method
hvap	75.36	kJ/mol	Joback Method
log10ws	-5.11		Crippen Method
logp	4.203		Crippen Method
mvol	234.290	ml/mol	McGowan Method
pc	1984.12	kPa	Joback Method
rinpol	2172.00		NIST Webbook
rinpol	2172.00		NIST Webbook
tb	806.67	K	Joback Method
tc	1017.28	K	Joback Method
tf	522.23	K	Joback Method
vc	0.907	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	624.78	J/molxK	806.67	Joback Method
cpg	635.32	J/molxK	841.77	Joback Method
cpg	644.99	J/molxK	876.87	Joback Method
cpg	653.84	J/molxK	911.98	Joback Method
cpg	661.89	J/molxK	947.08	Joback Method
cpg	669.17	J/molxK	982.18	Joback Method
cpg	675.73	J/molxK	1017.28	Joback Method

# Sources

<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=U390832&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U390832&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</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>hvpap:</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>rinppl:</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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