

# Fumaric acid, 4-bromophenyl 2-chloro-6-fluorophenyl ester

<b>Inchi:</b>	InChI=1S/C16H9BrClFO4/c17-10-4-6-11(7-5-10)22-14(20)8-9-15(21)23-16-12(18)2-1-3-
<b>InchiKey:</b>	VJNLWFLQDHCGFG-CMDGGGOBGS-A-N
<b>Formula:</b>	C16H9BrClFO4
<b>SMILES:</b>	O=C(C=CC(=O)Oc1c(F)cccc1Cl)Oc1ccc(Br)cc1
<b>Mol. weight [g/mol]:</b>	399.60

## Physical Properties

Property code	Value	Unit	Source
gf	-300.27	kJ/mol	Joback Method
hf	-492.82	kJ/mol	Joback Method
hfus	42.45	kJ/mol	Joback Method
hvap	86.02	kJ/mol	Joback Method
log10ws	-5.78		Crippen Method
logp	4.309		Crippen Method
mvol	230.870	ml/mol	McGowan Method
pc	2485.07	kPa	Joback Method
rinpol	2585.00		NIST Webbook
tb	893.38	K	Joback Method
tc	1140.67	K	Joback Method
tf	590.03	K	Joback Method
vc	0.873	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	585.86	J/mol×K	893.38	Joback Method
cpg	595.00	J/mol×K	934.59	Joback Method
cpg	603.14	J/mol×K	975.81	Joback Method
cpg	610.34	J/mol×K	1017.02	Joback Method
cpg	616.65	J/mol×K	1058.24	Joback Method
cpg	622.12	J/mol×K	1099.45	Joback Method
cpg	626.80	J/mol×K	1140.67	Joback Method

# Sources

<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=U405774&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U405774&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307I">http://pubs.acs.org/doi/abs/10.1021/ci990307I</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>

# 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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