

# Fumaric acid, 4-bromophenyl 2-fluorophenyl ester

<b>Inchi:</b>	InChI=1S/C16H10BrFO4/c17-11-5-7-12(8-6-11)21-15(19)9-10-16(20)22-14-4-2-1-3-13(1
<b>InchiKey:</b>	PBNWQAHQQRKUNI-MDZDMXLPSA-N
<b>Formula:</b>	C16H10BrFO4
<b>SMILES:</b>	O=C(C=CC(=O)Oc1ccccc1F)Oc1ccc(Br)cc1
<b>Mol. weight [g/mol]:</b>	365.15

## Physical Properties

Property code	Value	Unit	Source
gf	-278.71	kJ/mol	Joback Method
hf	-465.61	kJ/mol	Joback Method
hfus	38.64	kJ/mol	Joback Method
hvap	80.97	kJ/mol	Joback Method
log10ws	-5.10		Crippen Method
logp	3.655		Crippen Method
mcvol	218.630	ml/mol	McGowan Method
pc	2619.09	kPa	Joback Method
tb	850.97	K	Joback Method
tc	1095.42	K	Joback Method
tf	547.59	K	Joback Method
vc	0.824	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	569.04	J/molxK	850.97	Joback Method
cpg	579.46	J/molxK	891.71	Joback Method
cpg	588.84	J/molxK	932.45	Joback Method
cpg	597.23	J/molxK	973.19	Joback Method
cpg	604.70	J/molxK	1013.93	Joback Method
cpg	611.30	J/molxK	1054.68	Joback Method
cpg	617.09	J/molxK	1095.42	Joback Method

# Sources

<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=U405771&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U405771&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>
<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</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>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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