

# Fumaric acid, 4-bromophenyl 3-chlorophenyl ester

Inchi:	InChI=1S/C16H10BrClO4/c17-11-4-6-13(7-5-11)21-15(19)8-9-16(20)22-14-3-1-2-12(18)1
InchiKey:	DRLAOBSMEUYVDP-CMDGGGOBGS-A-N
Formula:	C16H10BrClO4
SMILES:	O=C(C=CC(=O)Oc1cccc(Cl)c1)Oc1ccc(Br)cc1
Mol. weight [g/mol]:	381.61

## Physical Properties

Property code	Value	Unit	Source
gf	-95.83	kJ/mol	Joback Method
hf	-285.24	kJ/mol	Joback Method
hfus	39.76	kJ/mol	Joback Method
hvap	86.18	kJ/mol	Joback Method
log10ws	-5.45		Crippen Method
logp	4.170		Crippen Method
mcvol	229.100	ml/mol	McGowan Method
pc	2640.67	kPa	Joback Method
rinqol	2639.00		NIST Webbook
tb	889.13	K	Joback Method
tc	1144.89	K	Joback Method
tf	576.92	K	Joback Method
vc	0.855	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	580.41	J/molxK	889.13	Joback Method
cpg	618.97	J/molxK	1102.27	Joback Method
cpg	613.11	J/molxK	1059.64	Joback Method
cpg	606.39	J/molxK	1017.01	Joback Method
cpg	598.74	J/molxK	974.38	Joback Method
cpg	590.11	J/molxK	931.76	Joback Method
cpg	624.05	J/molxK	1144.89	Joback Method
dvisc	0.0000603	Paxs	889.13	Joback Method
dvisc	0.0000742	Paxs	837.10	Joback Method

dvisc	0.0000937	Paxs	785.06	Joback Method
dvisc	0.0001223	Paxs	733.03	Joback Method
dvisc	0.0001664	Paxs	680.99	Joback Method
dvisc	0.0002381	Paxs	628.96	Joback Method
dvisc	0.0003635	Paxs	576.92	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U405775&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U405775&amp;Units=SI</a>
<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>

## Legend

<b>cpg:</b>	Ideal gas heat capacity
<b>dvisc:</b>	Dynamic viscosity
<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>rinpol:</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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