

# Fumaric acid, 4-bromophenyl 2-methylpent-3-yl ester

<b>Inchi:</b>	InChI=1S/C16H19BrO4/c1-4-14(11(2)3)21-16(19)10-9-15(18)20-13-7-5-12(17)6-8-13/h5
<b>InchiKey:</b>	PQSLNALBKWVLOB-MDZDMXLPSA-N
<b>Formula:</b>	C16H19BrO4
<b>SMILES:</b>	CCC(OC(=O)C=CC(=O)Oc1ccc(Br)cc1)C(C)C
<b>Mol. weight [g/mol]:</b>	355.22

## Physical Properties

Property code	Value	Unit	Source
gf	-191.56	kJ/mol	Joback Method
hf	-505.12	kJ/mol	Joback Method
hfus	34.86	kJ/mol	Joback Method
hvap	78.08	kJ/mol	Joback Method
log10ws	-4.88		Crippen Method
logp	3.888		Crippen Method
mcvol	240.620	ml/mol	McGowan Method
pc	2049.31	kPa	Joback Method
rinpol	2244.00		NIST Webbook
rinpol	2244.00		NIST Webbook
tb	819.16	K	Joback Method
tc	1043.54	K	Joback Method
tf	478.06	K	Joback Method
vc	0.901	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	662.43	J/mol×K	819.16	Joback Method
cpg	675.80	J/mol×K	856.56	Joback Method
cpg	688.14	J/mol×K	893.95	Joback Method
cpg	699.47	J/mol×K	931.35	Joback Method
cpg	709.85	J/mol×K	968.75	Joback Method
cpg	719.31	J/mol×K	1006.15	Joback Method
cpg	727.90	J/mol×K	1043.54	Joback Method
dvisc	0.0006886	Paxs	478.06	Joback Method

dvisc	0.0003636	Paxs	534.91	Joback Method
dvisc	0.0002171	Paxs	591.76	Joback Method
dvisc	0.0001419	Paxs	648.61	Joback Method
dvisc	0.0000993	Paxs	705.46	Joback Method
dvisc	0.0000733	Paxs	762.31	Joback Method
dvisc	0.0000564	Paxs	819.16	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=U405767&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U405767&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>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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