

# Fumaric acid, 4-bromophenyl hept-2-yl ester

<b>Inchi:</b>	InChI=1S/C17H21BrO4/c1-3-4-5-6-13(2)21-16(19)11-12-17(20)22-15-9-7-14(18)8-10-15
<b>InchiKey:</b>	JHJKUUXLWREBEE-VAWYXSNFSA-N
<b>Formula:</b>	C17H21BrO4
<b>SMILES:</b>	CCCCC(C)OC(=O)C=CC(=O)Oc1ccc(Br)cc1
<b>Mol. weight [g/mol]:</b>	369.25

## Physical Properties

Property code	Value	Unit	Source
gf	-180.70	kJ/mol	Joback Method
hf	-520.48	kJ/mol	Joback Method
hfus	40.98	kJ/mol	Joback Method
hvap	80.69	kJ/mol	Joback Method
log10ws	-5.54		Crippen Method
logp	4.423		Crippen Method
mcvol	254.710	ml/mol	McGowan Method
pc	1869.17	kPa	Joback Method
rinpol	2381.00		NIST Webbook
rinpol	2381.00		NIST Webbook
tb	842.48	K	Joback Method
tc	1061.54	K	Joback Method
tf	504.33	K	Joback Method
vc	0.964	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	717.79	J/molxK	842.48	Joback Method
cpg	731.26	J/molxK	878.99	Joback Method
cpg	743.72	J/molxK	915.50	Joback Method
cpg	755.20	J/molxK	952.01	Joback Method
cpg	765.74	J/molxK	988.52	Joback Method
cpg	775.40	J/molxK	1025.03	Joback Method
cpg	784.21	J/molxK	1061.54	Joback Method
dvisc	0.0005485	Paxs	504.33	Joback Method

dvisc	0.0003060	Paxs	560.69	Joback Method
dvisc	0.0001899	Paxs	617.05	Joback Method
dvisc	0.0001276	Paxs	673.40	Joback Method
dvisc	0.0000912	Paxs	729.76	Joback Method
dvisc	0.0000684	Paxs	786.12	Joback Method
dvisc	0.0000533	Paxs	842.48	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U405770&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U405770&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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