

# Glutaric acid, 3-chlorophenyl 4-bromophenyl ester

<b>Inchi:</b>	InChI=1S/C17H14BrClO4/c18-12-7-9-14(10-8-12)22-16(20)5-2-6-17(21)23-15-4-1-3-13(1
<b>InchiKey:</b>	YKXMSYQBWBSFOH-UHFFFAOYSA-N
<b>Formula:</b>	C17H14BrClO4
<b>SMILES:</b>	O=C(CCCC(=O)Oc1cccc(Cl)c1)Oc1ccc(Br)cc1
<b>Mol. weight [g/mol]:</b>	397.65

## Physical Properties

Property code	Value	Unit	Source
gf	-167.63	kJ/mol	Joback Method
hf	-423.10	kJ/mol	Joback Method
hfus	42.15	kJ/mol	Joback Method
hvap	88.44	kJ/mol	Joback Method
log10ws	-6.01		Crippen Method
logp	4.784		Crippen Method
mvol	247.490	ml/mol	McGowan Method
pc	2280.59	kPa	Joback Method
rinpol	2842.00		NIST Webbook
rinpol	2842.00		NIST Webbook
tb	907.85	K	Joback Method
tc	1152.03	K	Joback Method
tf	593.27	K	Joback Method
vc	0.930	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	663.84	J/molxK	907.85	Joback Method
cpg	674.20	J/molxK	948.55	Joback Method
cpg	683.39	J/molxK	989.24	Joback Method
cpg	691.44	J/molxK	1029.94	Joback Method
cpg	698.40	J/molxK	1070.64	Joback Method
cpg	704.32	J/molxK	1111.34	Joback Method
cpg	709.24	J/molxK	1152.03	Joback Method
dvisc	0.0003584	Paxs	593.27	Joback Method

dvisc	0.0002355	Paxs	645.70	Joback Method
dvisc	0.0001648	Paxs	698.13	Joback Method
dvisc	0.0001213	Paxs	750.56	Joback Method
dvisc	0.0000928	Paxs	802.99	Joback Method
dvisc	0.0000735	Paxs	855.42	Joback Method
dvisc	0.0000597	Paxs	907.85	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=U393296&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U393296&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>

## 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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