

# Glutaric acid, cyclohexylmethyl 4-bromophenyl ester

<b>Inchi:</b>	InChI=1S/C18H23BrO4/c19-15-9-11-16(12-10-15)23-18(21)8-4-7-17(20)22-13-14-5-2-1-
<b>InchiKey:</b>	AYQGJYGOZMWWGO-UHFFFAOYSA-N
<b>Formula:</b>	C18H23BrO4
<b>SMILES:</b>	O=C(CCCC(=O)Oc1ccc(Br)cc1)OCC1CCCCC1
<b>Mol. weight [g/mol]:</b>	383.28

## Physical Properties

Property code	Value	Unit	Source
gf	-225.61	kJ/mol	Joback Method
hf	-598.74	kJ/mol	Joback Method
hfus	38.72	kJ/mol	Joback Method
hvap	83.78	kJ/mol	Joback Method
log10ws	-5.65		Crippen Method
logp	4.648		Crippen Method
mvol	262.240	ml/mol	McGowan Method
pc	1950.95	kPa	Joback Method
rinpol	2723.00		NIST Webbook
rinpol	2723.00		NIST Webbook
tb	881.19	K	Joback Method
tc	1113.91	K	Joback Method
tf	543.06	K	Joback Method
vc	0.979	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	794.88	J/molxK	881.19	Joback Method
cpg	809.65	J/molxK	919.98	Joback Method
cpg	822.97	J/molxK	958.76	Joback Method
cpg	834.88	J/molxK	997.55	Joback Method
cpg	845.42	J/molxK	1036.34	Joback Method
cpg	854.64	J/molxK	1075.12	Joback Method
cpg	862.57	J/molxK	1113.91	Joback Method
dvisc	0.0005460	Paxs	543.06	Joback Method

dvisc	0.0003174	Paxs	599.41	Joback Method
dvisc	0.0002026	Paxs	655.77	Joback Method
dvisc	0.0001388	Paxs	712.12	Joback Method
dvisc	0.0001005	Paxs	768.48	Joback Method
dvisc	0.0000761	Paxs	824.83	Joback Method
dvisc	0.0000597	Paxs	881.19	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=U393294&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U393294&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>cp<sub>g</sub>:</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>log<sub>10</sub>ws:</b>	Log <sub>10</sub> of Water solubility in mol/l
<b>log<sub>p</sub>:</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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