

# Glutaric acid, 4-bromophenyl isobutyl ester

**Inchi:** InChI=1S/C15H19BrO4/c1-11(2)10-19-14(17)4-3-5-15(18)20-13-8-6-12(16)7-9-13/h6-9,1  
**InchiKey:** OBRMEIMAXWPUID-UHFFFAOYSA-N  
**Formula:** C15H19BrO4  
**SMILES:** CC(C)COC(=O)CCCC(=O)Oc1ccc(Br)cc1  
**Mol. weight [g/mol]:** 343.21

## Physical Properties

Property code	Value	Unit	Source
gf	-277.76	kJ/mol	Joback Method
hf	-596.42	kJ/mol	Joback Method
hfus	35.59	kJ/mol	Joback Method
hvap	76.28	kJ/mol	Joback Method
log10ws	-4.50		Crippen Method
logp	3.724		Crippen Method
mcvol	230.830	ml/mol	McGowan Method
pc	2117.78	kPa	Joback Method
rinpol	2267.00		NIST Webbook
tb	792.56	K	Joback Method
tc	1009.47	K	Joback Method
tf	486.87	K	Joback Method
vc	0.872	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	632.74	J/molxK	792.56	Joback Method
cpg	646.15	J/molxK	828.71	Joback Method
cpg	658.55	J/molxK	864.86	Joback Method
cpg	669.96	J/molxK	901.02	Joback Method
cpg	680.39	J/molxK	937.17	Joback Method
cpg	689.87	J/molxK	973.32	Joback Method
cpg	698.43	J/molxK	1009.47	Joback Method
dvisc	0.0007265	Paxs	486.87	Joback Method
dvisc	0.0004243	Paxs	537.82	Joback Method

dvisc	0.0002720	Paxs	588.77	Joback Method
dvisc	0.0001871	Paxs	639.71	Joback Method
dvisc	0.0001361	Paxs	690.66	Joback Method
dvisc	0.0001033	Paxs	741.61	Joback Method
dvisc	0.0000813	Paxs	792.56	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U358721&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U358721&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307I">http://pubs.acs.org/doi/abs/10.1021/ci990307I</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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