

# Glutaric acid, 2-(4-bromophenyl)ethyl 2-methylhex-3-yl ester

<b>Inchi:</b>	InChI=1S/C20H29BrO4/c1-4-6-18(15(2)3)25-20(23)8-5-7-19(22)24-14-13-16-9-11-17(21)
<b>InchiKey:</b>	HVPLQJZZZQMURK-UHFFFAOYSA-N
<b>Formula:</b>	C20H29BrO4
<b>SMILES:</b>	CCCC(OC(=O)CCCC(=O)OCCc1ccc(Br)cc1)C(C)C
<b>Mol. weight [g/mol]:</b>	413.35

## Physical Properties

Property code	Value	Unit	Source
gf	-238.10	kJ/mol	Joback Method
hf	-704.90	kJ/mol	Joback Method
hfus	45.02	kJ/mol	Joback Method
hvap	87.02	kJ/mol	Joback Method
log10ws	-6.06		Crippen Method
logp	5.073		Crippen Method
mvol	301.280	ml/mol	McGowan Method
pc	1429.38	kPa	Joback Method
rinpol	2710.00		NIST Webbook
rinpol	2710.00		NIST Webbook
tb	906.52	K	Joback Method
tc	1121.15	K	Joback Method
tf	528.22	K	Joback Method
vc	1.145	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	919.14	J/molxK	906.52	Joback Method
cpg	933.74	J/molxK	942.29	Joback Method
cpg	947.14	J/molxK	978.06	Joback Method
cpg	959.36	J/molxK	1013.84	Joback Method
cpg	970.45	J/molxK	1049.61	Joback Method
cpg	980.44	J/molxK	1085.38	Joback Method
cpg	989.37	J/molxK	1121.15	Joback Method
dvisc	0.0004752	Paxs	528.22	Joback Method

dvisc	0.0002454	Paxs	591.27	Joback Method
dvisc	0.0001440	Paxs	654.32	Joback Method
dvisc	0.0000928	Paxs	717.37	Joback Method
dvisc	0.0000642	Paxs	780.42	Joback Method
dvisc	0.0000469	Paxs	843.47	Joback Method
dvisc	0.0000358	Paxs	906.52	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U377356&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U377356&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>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>h<sub>vap</sub>:</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>m<sub>cvol</sub>:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>rin<sub>pol</sub>:</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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