

# Glutaric acid, 2-bromobenzyl heptadecyl ester

<b>Inchi:</b>	InChI=1S/C29H47BrO4/c1-2-3-4-5-6-7-8-9-10-11-12-13-14-15-18-24-33-28(31)22-19-23
<b>InchiKey:</b>	MVVOMXHSZMBANZ-UHFFFAOYSA-N
<b>Formula:</b>	C29H47BrO4
<b>SMILES:</b>	CCCCCCCCCCCCCCCCOC(=O)CCCC(=O)OCc1ccccc1Br
<b>Mol. weight [g/mol]:</b>	539.59

## Physical Properties

Property code	Value	Unit	Source
gf	-157.44	kJ/mol	Joback Method
hf	-880.10	kJ/mol	Joback Method
hfus	75.38	kJ/mol	Joback Method
hvap	107.83	kJ/mol	Joback Method
log10ws	-10.45		Crippen Method
logp	9.077		Crippen Method
mcvol	428.090	ml/mol	McGowan Method
pc	804.79	kPa	Joback Method
rinpol	3721.00		NIST Webbook
rinpol	3721.00		NIST Webbook
tb	1113.32	K	Joback Method
tc	1377.89	K	Joback Method
tf	659.65	K	Joback Method
vc	1.661	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1471.65	J/molxK	1113.32	Joback Method
cpg	1488.76	J/molxK	1157.41	Joback Method
cpg	1503.95	J/molxK	1201.51	Joback Method
cpg	1517.35	J/molxK	1245.60	Joback Method
cpg	1529.07	J/molxK	1289.70	Joback Method
cpg	1539.25	J/molxK	1333.79	Joback Method
cpg	1548.01	J/molxK	1377.89	Joback Method
dvisc	0.0001268	Paxs	659.65	Joback Method

dvisc	0.0000675	Paxs	735.26	Joback Method
dvisc	0.0000404	Paxs	810.87	Joback Method
dvisc	0.0000264	Paxs	886.48	Joback Method
dvisc	0.0000185	Paxs	962.10	Joback Method
dvisc	0.0000136	Paxs	1037.71	Joback Method
dvisc	0.0000104	Paxs	1113.32	Joback Method

## Sources

<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>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U376775&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U376775&amp;Units=SI</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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