

# Glutaric acid, dodec-2-en-1-yl 4-bromophenyl ester

Inchi:	InChI=1S/C23H33BrO4/c1-2-3-4-5-6-7-8-9-10-11-19-27-22(25)13-12-14-23(26)28-21-17
InchiKey:	XDBDHUVFSBDYIO-ZHACJKMWSA-N
Formula:	C23H33BrO4
SMILES:	CCCCCCCCC=CCOC(=O)CCCC(=O)Oc1ccc(Br)cc1
Mol. weight [g/mol]:	453.41

## Physical Properties

Property code	Value	Unit	Source
gf	-127.74	kJ/mol	Joback Method
hf	-639.04	kJ/mol	Joback Method
hfus	60.04	kJ/mol	Joback Method
hvap	94.44	kJ/mol	Joback Method
log10ws	-7.94		Crippen Method
logp	6.765		Crippen Method
mvol	339.250	ml/mol	McGowan Method
pc	1191.52	kPa	Joback Method
rinpol	3117.00		NIST Webbook
rinpol	3117.00		NIST Webbook
tb	980.20	K	Joback Method
tc	1201.50	K	Joback Method
tf	586.95	K	Joback Method
vc	1.306	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1069.74	J/molxK	980.20	Joback Method
cpg	1133.24	J/molxK	1164.62	Joback Method
cpg	1122.59	J/molxK	1127.73	Joback Method
cpg	1110.99	J/molxK	1090.85	Joback Method
cpg	1098.35	J/molxK	1053.97	Joback Method
cpg	1084.63	J/molxK	1017.08	Joback Method
cpg	1142.98	J/molxK	1201.50	Joback Method
dvisc	0.0000238	Paxs	980.20	Joback Method

dvisc	0.0000307	Paxs	914.66	Joback Method
dvisc	0.0000411	Paxs	849.12	Joback Method
dvisc	0.0000577	Paxs	783.58	Joback Method
dvisc	0.0000863	Paxs	718.03	Joback Method
dvisc	0.0001400	Paxs	652.49	Joback Method
dvisc	0.0002529	Paxs	586.95	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=U393299&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U393299&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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