

# Diglycolic acid, 4-bromophenyl isoheptyl ester

<b>Inchi:</b>	InChI=1S/C16H21BrO5/c1-12(2)4-3-9-21-15(18)10-20-11-16(19)22-14-7-5-13(17)6-8-14
<b>InchiKey:</b>	XUXZNCOYLBAUDC-UHFFFAOYSA-N
<b>Formula:</b>	C16H21BrO5
<b>SMILES:</b>	CC(C)CCCOC(=O)COCC(=O)Oc1ccc(Br)cc1
<b>Mol. weight [g/mol]:</b>	373.24

## Physical Properties

Property code	Value	Unit	Source
gf	-374.34	kJ/mol	Joback Method
hf	-749.28	kJ/mol	Joback Method
hfus	39.37	kJ/mol	Joback Method
hvap	80.92	kJ/mol	Joback Method
log10ws	-4.01		Crippen Method
logp	3.350		Crippen Method
mvol	250.790	ml/mol	McGowan Method
pc	1913.58	kPa	Joback Method
rinpol	2976.00		NIST Webbook
rinpol	2976.00		NIST Webbook
tb	837.86	K	Joback Method
tc	1051.85	K	Joback Method
tf	520.37	K	Joback Method
vc	0.946	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	715.12	J/molxK	837.86	Joback Method
cpg	728.34	J/molxK	873.53	Joback Method
cpg	740.45	J/molxK	909.19	Joback Method
cpg	751.47	J/molxK	944.86	Joback Method
cpg	761.40	J/molxK	980.52	Joback Method
cpg	770.25	J/molxK	1016.19	Joback Method
cpg	778.03	J/molxK	1051.85	Joback Method
dvisc	0.0004628	Paxs	520.37	Joback Method

dvisc	0.0002728	Paxs	573.28	Joback Method
dvisc	0.0001758	Paxs	626.20	Joback Method
dvisc	0.0001213	Paxs	679.12	Joback Method
dvisc	0.0000883	Paxs	732.03	Joback Method
dvisc	0.0000671	Paxs	784.94	Joback Method
dvisc	0.0000528	Paxs	837.86	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=U381897&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U381897&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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