

# Diethylmalonic acid, 4-bromophenyl butyl ester

Inchi:	InChI=1S/C17H23BrO4/c1-4-7-12-21-15(19)17(5-2,6-3)16(20)22-14-10-8-13(18)9-11-14
InchiKey:	WQCRMZYNGQOHJX-UHFFFAOYSA-N
Formula:	C17H23BrO4
SMILES:	CCCCOC(=O)C(CC)(CC)C(=O)Oc1ccc(Br)cc1
Mol. weight [g/mol]:	371.27

## Physical Properties

Property code	Value	Unit	Source
gf	-255.64	kJ/mol	Joback Method
hf	-641.17	kJ/mol	Joback Method
hfus	36.88	kJ/mol	Joback Method
hvap	79.83	kJ/mol	Joback Method
log10ws	-5.34		Crippen Method
logp	4.504		Crippen Method
mcvol	259.010	ml/mol	McGowan Method
pc	1804.63	kPa	Joback Method
rinpol	2190.00		NIST Webbook
rinpol	2190.00		NIST Webbook
tb	835.53	K	Joback Method
tc	1053.80	K	Joback Method
tf	526.83	K	Joback Method
vc	0.979	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	745.36	J/molxK	835.53	Joback Method
cpg	759.34	J/molxK	871.91	Joback Method
cpg	772.26	J/molxK	908.29	Joback Method
cpg	784.15	J/molxK	944.66	Joback Method
cpg	795.06	J/molxK	981.04	Joback Method
cpg	805.06	J/molxK	1017.42	Joback Method
cpg	814.18	J/molxK	1053.80	Joback Method
dvisc	0.0004832	Paxs	526.83	Joback Method

dvisc	0.0002836	Paxs	578.28	Joback Method
dvisc	0.0001816	Paxs	629.73	Joback Method
dvisc	0.0001244	Paxs	681.18	Joback Method
dvisc	0.0000898	Paxs	732.63	Joback Method
dvisc	0.0000677	Paxs	784.08	Joback Method
dvisc	0.0000529	Paxs	835.53	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=U369823&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U369823&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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